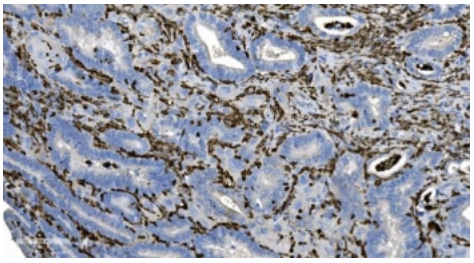
Coronin 1A Antibody / TACO Antibody (RQ6415)

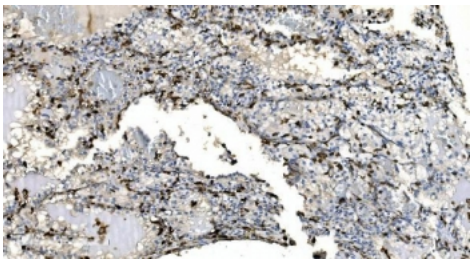
Catalog No.	Formulation	Size
RQ6415	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

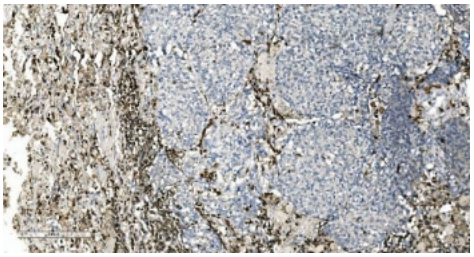
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P31146
Localization	Cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells Immunoprecipitation: 2ug per 500ug of lysate Direct ELISA: 0.1-0.5ug/ml
Limitations	This Coronin 1A Antibody / TACO Antibody is available for research use only.



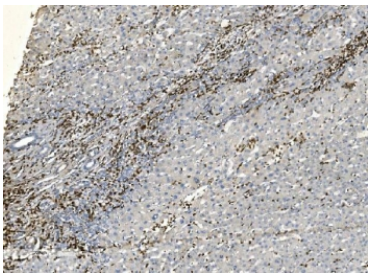
Coronin 1A Antibody Human Gallbladder Adenocarcinoma IHC. Immunohistochemistry staining of FFPE human gallbladder adenocarcinoma tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in stromal and infiltrating immune cell populations surrounding the tumor glands.



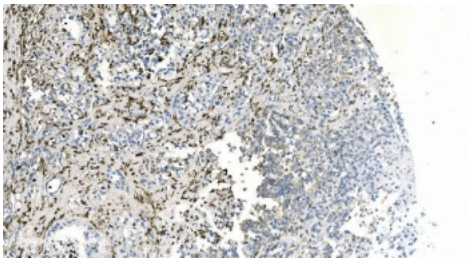
Coronin 1A Antibody Human Clear Cell Renal Cell Carcinoma IHC. Immunohistochemistry staining of FFPE human clear cell renal cell carcinoma tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in infiltrating immune and stromal cell populations within the tumor tissue.



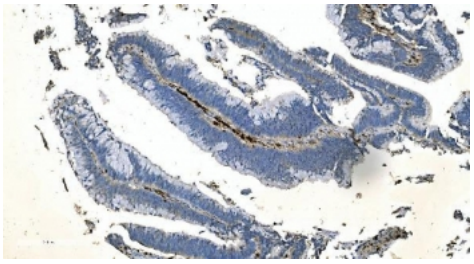
Coronin 1A Antibody Human Lung Cancer Immune Cell IHC. Immunohistochemistry staining of FFPE human lung cancer tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in infiltrating immune and stromal cell populations within the tumor tissue.



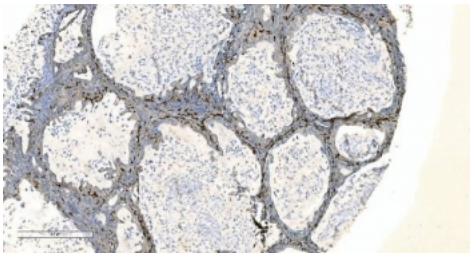
Coronin 1A Antibody Human Liver Cancer Immune Cell IHC. Immunohistochemistry staining of FFPE human liver cancer tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in infiltrating immune and stromal cell populations within the tumor tissue.



Coronin 1A Antibody Human Gastric Cancer Immune Cell IHC. Immunohistochemistry staining of FFPE human gastric cancer tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in infiltrating immune and stromal cell populations within the tumor tissue.



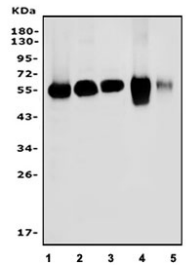
Coronin 1A Antibody Human Colonic Adenocarcinoma Immune Cell IHC. Immunohistochemistry staining of FFPE human colonic adenocarcinoma tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in stromal and infiltrating immune cell populations surrounding the tumor glands.



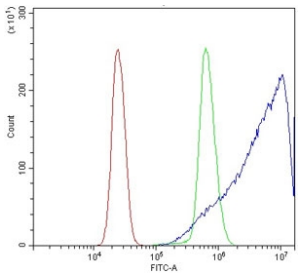
Coronin 1A Antibody Human Ovarian Cancer Immune Cell IHC. Immunohistochemistry staining of FFPE human ovarian cancer tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in stromal and infiltrating immune cell populations surrounding the tumor regions.



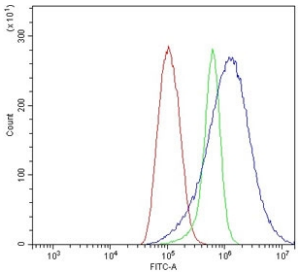
Coronin 1A Antibody Human Ovarian Serous Adenocarcinoma Immune Cell IHC. Immunohistochemistry staining of FFPE human ovarian serous adenocarcinoma tissue with Coronin 1A Antibody / TACO Antibody. Heat-induced epitope retrieval (HIER) was performed by boiling tissue sections in EDTA buffer, pH 8, for 20 min followed by cooling before staining. Coronin 1A staining is observed predominantly in stromal and infiltrating immune cell populations surrounding the tumor regions.



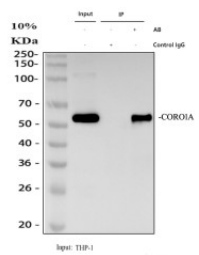
Coronin 1A Antibody Human, Mouse and Rat Immune Cell and Tissue WB. Western blot analysis of Coronin 1A Antibody / TACO Antibody using 1) human Jurkat T cell, 2) rat spleen, 3) rat thymus, 4) mouse spleen and 5) mouse thymus lysates. Coronin 1A is detected at approximately 51-57 kDa across the samples tested, consistent with the predicted molecular weight of approximately 51 kDa. This Coronin 1A Antibody supports detection of TACO in human, mouse and rat immune cells and lymphoid tissues.



Coronin 1A Antibody Human U937 Monocyte FACS. Flow cytometry analysis of human U937 monocytic cells using Coronin 1A Antibody / TACO Antibody at 1 ug/million cells following blocking with goat sera. The red histogram represents cells alone, the green histogram represents the isotype control, and the blue histogram represents Coronin 1A antibody staining. The strong positive fluorescence shift demonstrates detection of Coronin 1A in U937 cells, supporting analysis of TACO expression by flow cytometry.



Coronin 1A Antibody Human THP-1 Monocyte FACS. Flow cytometry analysis of human THP-1 monocytic cells using Coronin 1A Antibody / TACO Antibody at 1 ug/million cells following blocking with goat sera. The red histogram represents cells alone, the green histogram represents the isotype control, and the blue histogram represents Coronin 1A antibody staining. The positive fluorescence shift demonstrates detection of Coronin 1A in THP-1 cells, supporting analysis of TACO expression by flow cytometry.



Coronin 1A Antibody Human THP-1 Monocyte IP. Immunoprecipitation of Coronin 1A from human THP-1 monocytic cell lysate using Coronin 1A Antibody / TACO Antibody. Lane 1: 30 ug THP-1 whole cell lysate input; Lane 2: rabbit control IgG with THP-1 lysate; Lane 3: 2 ug Coronin 1A antibody with 500 ug THP-1 whole cell lysate. Immunoprecipitated protein was detected by western blot using Coronin 1A antibody at 0.5 ug/ml followed by goat anti-rabbit IgG-HRP light-chain secondary antibody and ECL detection. A specific band was detected at approximately 57 kDa, consistent with the expected molecular weight of CORO1A.

Description

Coronin 1A Antibody / TACO Antibody recognizes Coronin 1A, an actin-associated protein encoded by the CORO1A gene and expressed predominantly in cells of hematopoietic origin. Also historically known as TACO, or Tryptophan Aspartate-Containing Coat Protein, Coronin 1A belongs to the coronin family of cytoskeletal regulatory proteins. It associates with the actin cytoskeleton and participates in processes that influence immune cell movement, signaling and membrane dynamics. Its strong association with leukocytes makes Coronin 1A an important target for research into immune cell biology and host defense.

Coronin 1A contributes to the regulation of actin-dependent processes in lymphocytes and myeloid cells. In T cells, the

protein participates in signaling and cytoskeletal events important for cellular homeostasis, migration and immune responses. CORO1A function is particularly important for normal T-cell development and survival, and alterations in the gene can result in immune dysfunction. These properties have made Coronin 1A useful for investigating the relationship between cytoskeletal organization and leukocyte signaling.

The historical designation TACO is closely associated with studies of macrophage phagosome biology. Coronin 1A can associate transiently with phagosomal membranes following particle uptake. Its relationship with phagosome maturation became particularly notable through research examining the intracellular survival of Mycobacterium species in macrophages. These studies established TACO as a target of interest in research into macrophage-pathogen interactions, intracellular microbial persistence and mechanisms of innate host defense.

Beyond macrophage biology, Coronin 1A has important functions throughout the immune system. CORO1A-dependent regulation of the actin cytoskeleton can influence lymphocyte trafficking and signaling, while genetic defects affecting Coronin 1A have been associated with immunodeficiency phenotypes involving abnormal T-cell function. The protein therefore provides a link between cytoskeletal dynamics, immune cell signaling and both innate and adaptive immune responses.

A Coronin 1A Antibody can be used to investigate TACO expression, leukocyte signaling, actin-associated immune processes, macrophage phagosome biology and mechanisms involved in host-pathogen interactions.

Coronin 1A, historically known as TACO, plays an important role in macrophage phagosome biology and host-pathogen interactions and is closely associated with research using Macrophage Antibodies.

Application Notes

Optimal dilution of the Coronin 1A Antibody / TACO Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids E173-K461) was used as the immunogen for the Coronin 1A antibody.

Storage

After reconstitution, the Coronin 1A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

Coronin 1A antibody, TACO antibody, CORO1A antibody, Coronin-1A antibody, Tryptophan Aspartate-Containing Coat Protein antibody, p57 antibody

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