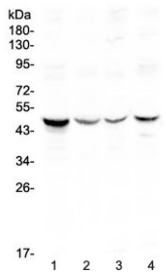
Caspase 4 Antibody (large subunit) (RQ4240)

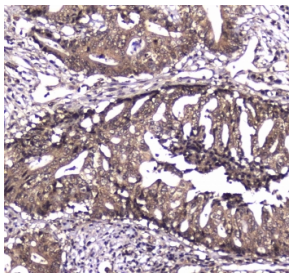
Catalog No.	Formulation	Size
RQ4240	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

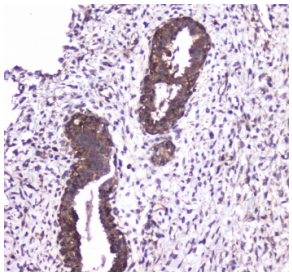
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P49662
Localization	Cytoplasmic
Applications	Western Blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml FACS: 1-3ug/10^6 cells IF/ICC: 2-4ug/ml Direct ELISA: 0.1-0.5ug/ml
Limitations	This Caspase 4 antibody is available for research use only.



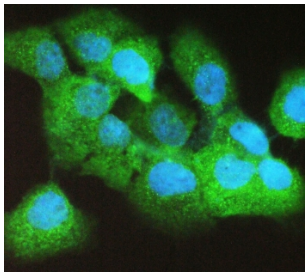
Western blot testing of human 1) HeLa 2) COLO320, 3) SW620 and 4) HepG2 lysate with Caspase 4 antibody at 0.5ug/ml. Expected molecular weight ~43 kDa (precursor), ~30 kDa (pro domain + large subunit), ~20 kDa (large subunit).



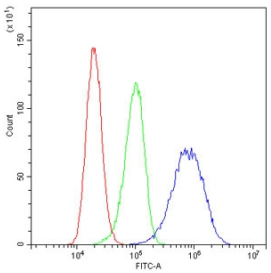
IHC testing of FFPE human breast cancer tissue with Caspase 4 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human colon cancer tissue with Caspase 4 antibody at 1ug/ml. Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IF/ICC stainning of FFPE human A431 cells with Caspase 4 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). Required HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of human A431 cells with Caspase 4 antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Caspase 4 antibody.

Description

Caspase 4 is an enzyme that proteolytically cleaves other proteins at an aspartic acid residue, and belongs to a family of cysteine proteases called caspases. The Caspase 4 gene is mapped to a P1 clone containing the ICE gene, which is located at chromosome 11q22.2-q22.3. It contains 8 coding exons. The function of caspase 4 is not fully known, but it is believed to be an inflammatory caspase, along with caspase 1, caspase 5 (and the murine homolog caspase 11), with a role in the immune system.

Application Notes

Optimal dilution of the Caspase 4 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids H111-R194 was used as the immunogen for the Caspase 4 antibody. This sequence is from the large subunit.

Storage

After reconstitution, the Caspase 4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at

-20oC. Avoid repeated freezing and thawing.

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