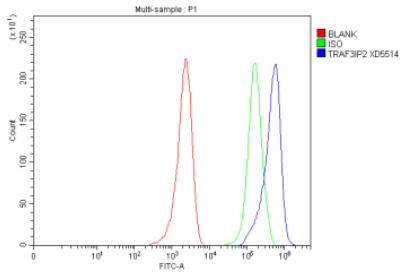
TRAF3IP2 Antibody / TRAF3-interacting protein 2 (FY12301)

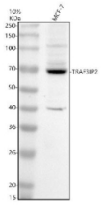
Catalog No.	Formulation	Size
FY12301	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	O43734
Applications	Western Blot : 0.25-0.5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This TRAF3IP2 antibody is available for research use only.



Flow Cytometry analysis of MCF-7 cells using anti-TRAF3IP2 antibody. Overlay histogram showing MCF-7 cells stained with (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-TRAF3IP2 antibody (1 ug/million cells) for 30 min at 20oC. DyLight 488 conjugated goat anti-rabbit IgG (5-10 ug/million cells) was used as secondary antibody for 30 minutes at 20oC. Isotype control antibody (Green line) was rabbit IgG (1 ug/million cells) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Western blot analysis of TRAF3IP2 using anti-TRAF3IP2 antibody. Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: human MCF-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TRAF3IP2 antibody at 0.5 ug/ml overnight at 4oC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal was developed using an ECL Plus Western Blotting Substrate. The expected molecular weight of TRAF3IP2 is ~65 kDa.

Description

TRAF3IP2 antibody detects TRAF3-interacting protein 2, encoded by the TRAF3IP2 gene on chromosome 6q21. TRAF3IP2 antibody is widely used in immunology, signal transduction, and inflammatory disease research. TRAF3IP2, also known as Act1, is a cytoplasmic adaptor protein that integrates signals from interleukin receptors, Toll-like receptors, and TNF receptor family members. It is critical for NF-kappaB and MAPK activation downstream of IL-17 signaling.

Structurally, TRAF3IP2 is a ~65 kDa protein containing an SEFIR domain, a helix-loop-helix domain, and TRAF-binding motifs. These domains enable interactions with IL-17 receptor subunits, TRAF proteins, and kinases. TRAF3IP2 acts as a signal transducer bridging receptor complexes to downstream effectors, particularly in inflammatory pathways.

Functionally, TRAF3IP2 is indispensable for IL-17 signaling, mediating proinflammatory gene expression in epithelial and immune cells. It also participates in antiviral responses, B cell maturation, and adaptive immunity. Researchers use TRAF3IP2 antibody to study cytokine signaling, inflammation, and host defense.

Clinically, mutations in TRAF3IP2 are associated with psoriasis, psoriatic arthritis, and other autoimmune diseases. Polymorphisms in TRAF3IP2 influence susceptibility to inflammatory disorders, and dysregulated expression has been linked to cancer progression. Because IL-17 signaling is a therapeutic target, TRAF3IP2 is under investigation as a biomarker and potential drug target. NSJ Bioreagents supplies TRAF3IP2 antibody for immunology, inflammation, and disease mechanism studies.

Experimentally, TRAF3IP2 antibody is used in western blotting to detect the ~65 kDa protein, in immunofluorescence to study cytoplasmic distribution, and in co-immunoprecipitation to examine receptor complexes. It is valuable in dissecting IL-17-mediated signaling cascades.

Application Notes

Optimal dilution of the TRAF3IP2 antibody should be determined by the researcher.

Immunogen

E.coli-derived human TRAF3IP2 recombinant protein (Position: M1-H528) was used as the immunogen for the TRAF3IP2 antibody.

Storage

After reconstitution, the TRAF3IP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.