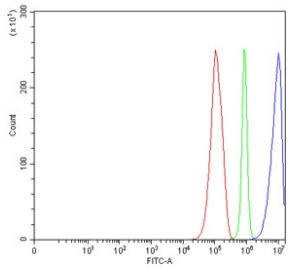
TRIM29 Antibody Rabbit Polyclonal (RQ7446)

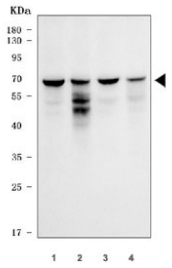
Catalog No.	Formulation	Size
RQ7446	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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
UniProt	Q14134
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This TRIM29 antibody is available for research use only.



Flow cytometry testing of human RT4 cells with TRIM29 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TRIM29 antibody rabbit polyclonal.



Western blot testing of human 1) RT4, 2) HaCaT, 3) SiHa and 4) A431 cell lysate with polyclonal TRIM29 antibody. Predicted molecular weight ~66 kDa.

Description

Tripartite motif containing 29 is a cytoplasmic and nuclear protein encoded by the TRIM29 gene and is also known as ataxia-telangiectasia group D complementing protein or ATDC. The TRIM29 Antibody Rabbit Polyclonal is developed to detect this member of the tripartite motif family in research applications involving epithelial biology and tumor studies. TRIM29 is located on chromosome 11q23 and belongs to the TRIM protein family characterized by conserved domains that typically include a RING finger, B-box motifs, and a coiled-coil region, although TRIM29 lacks a canonical RING domain found in many other TRIM proteins.

TRIM29 functions as a scaffold-like regulatory protein and has been implicated in modulation of DNA damage response pathways, chromatin organization, and transcriptional regulation. It interacts with components of the p53 signaling axis and has been reported to influence cellular responses to genotoxic stress. Through these interactions, TRIM29 contributes to regulation of cell proliferation, apoptosis, and cellular differentiation. Its subcellular localization can vary depending on cell type and context, with cytoplasmic and nuclear distribution described in epithelial tissues.

Expression of TRIM29 is enriched in epithelial cells of tissues such as pancreas, lung, and gastrointestinal tract. In cancer biology, TRIM29 has been reported to be dysregulated in several malignancies including pancreatic, gastric, lung, and breast carcinomas. Depending on tumor context, TRIM29 has been described as either promoting tumor progression or acting in tumor-suppressive pathways, highlighting its complex and tissue-dependent biological role. Its involvement in epithelial integrity and stress signaling pathways makes it a protein of interest in studies of tumor development and progression.

As a member of the TRIM protein family, TRIM29 contributes to signaling networks that regulate protein stability and cellular stress responses. Investigation of TRIM29 expression supports research focused on epithelial differentiation, oncogenic signaling pathways, and DNA damage response mechanisms. The rabbit polyclonal TRIM29 antibody is suitable for detecting TRIM29 protein expression in a variety of research settings.

Application Notes

Optimal dilution of the TRIM29 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E169-R549) was used as the immunogen for the TRIM29 antibody rabbit polyclonal.

Storage

After reconstitution, the TRIM29 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.