TNIP3 Antibody / TNFAIP3-interacting protein 3 (FY13146)

Catalog No.	Formulation	Size
FY13146	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
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	Q96KP6
Applications	Western Blot : 0.25-0.5ug/ml Immunocytochemistry/Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This TNIP3 antibody is available for research use only.

Description

TNIP3 antibody detects TNFAIP3-interacting protein 3, an inhibitory regulator of NF-kappaB signaling that modulates inflammation and immune homeostasis. The UniProt recommended name is TNFAIP3-interacting protein 3 (TNIP3). This cytoplasmic protein binds the ubiquitin-editing enzyme A20 (TNFAIP3) to suppress NF-kappaB activation and prevent excessive inflammatory responses.

Functionally, TNIP3 antibody identifies a 619-amino-acid adaptor protein that interacts with polyubiquitinated signaling intermediates in TNF and Toll-like receptor pathways. TNIP3 limits downstream signaling by promoting deubiquitination and degradation of key components such as TRAF6 and RIPK1. Through its regulatory activity, TNIP3 maintains immune balance and protects against chronic inflammation.

The TNIP3 gene is located on chromosome 4p15.2 and is expressed in immune tissues including spleen, lymph nodes, and macrophages. It is inducible by proinflammatory cytokines and interferons, functioning as part of a negative feedback loop to terminate NF-kappaB signaling. TNIP3 also contributes to cellular responses to oxidative stress and apoptosis.

Pathologically, dysregulation of TNIP3 has been linked to autoimmune and inflammatory diseases such as rheumatoid arthritis, psoriasis, and inflammatory bowel disease. Altered TNIP3 expression may enhance susceptibility to chronic immune activation. Research using TNIP3 antibody supports studies in inflammation, signal transduction, and immune regulation.

TNIP3 antibody is validated for western blotting, immunohistochemistry, and immunofluorescence to detect NF-kappaB regulatory proteins. NSJ Bioreagents provides TNIP3 antibody reagents optimized for studies in cytokine signaling, immune modulation, and inflammation control.

Structurally, TNFAIP3-interacting protein 3 contains multiple ubiquitin-binding domains that recognize polyubiquitin chains and mediate interaction with A20. This antibody facilitates investigation of TNIP3Â's function in inflammatory signaling and immune tolerance.

Application Notes

Optimal dilution of the TNIP3 antibody should be determined by the researcher.

Immunogen

E.coli-derived human TNIP3 recombinant protein (Position: K30-P325) was used as the immunogen for the TNIP3 antibody.

Storage

After reconstitution, the TNIP3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.