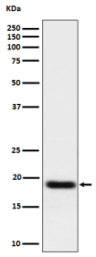
TNFAIP8 Antibody / Tumor necrosis factor alpha induced protein 8 [clone 30T22] (FY12872)

Catalog No.	Formulation	Size
FY12872	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human
Format	Liquid
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30T22
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	O95379
Applications	Western Blot : 1:500-1:2000
Limitations	This TNFAIP8 antibody is available for research use only.



Western blot analysis of TNFAIP8 expression in human A549 cell lysate using TNFAIP8 antibody. TNFAIP8 western blot shows a predominant band at ~19 kDa. Although the predicted mass is ~23 kDa, TNFAIP8 commonly migrates at ~18-21 kDa due to electrophoretic mobility characteristics of small acidic proteins and possible isoform/alternative-start usage.

Description

TNFAIP8 antibody detects Tumor necrosis factor alpha induced protein 8, encoded by the TNFAIP8 gene. This protein is part of the TNFAIP8 family, which includes several paralogs involved in apoptosis regulation, immune modulation, and cancer biology. TNFAIP8 has been described as an anti apoptotic factor that suppresses programmed cell death and influences cell survival pathways in response to cytokine signaling. Research using TNFAIP8 antibody has demonstrated

that it contributes to immune evasion in tumors and enhances the survival of malignant cells under stress conditions, making it highly relevant in oncology studies.

TNFAIP8 is induced by TNF signaling and is involved in modulating NF kappa B activity. Studies indicate that it can inhibit caspase activation and reduce apoptosis, thereby promoting cell survival under stress conditions. By altering apoptosis thresholds, TNFAIP8 helps cancer cells persist in hostile microenvironments where other cells would undergo death. Detection with TNFAIP8 antibody has shown elevated expression in multiple cancers, including lung, colon, and ovarian carcinoma, where it contributes to chemoresistance and poor prognosis. Its regulation of immune signaling pathways makes it a target of interest in both immunology and oncology, as it may serve as a biomarker for aggressiveness and therapeutic resistance.

Beyond its role in apoptosis, TNFAIP8 may participate in vesicle trafficking and autophagy. It has been implicated in lipid binding and membrane dynamics, linking it to cellular stress responses and nutrient sensing. Evidence suggests that TNFAIP8 can modulate PI3K AKT signaling, further highlighting its role in integrating survival and metabolic pathways. Researchers employing TNFAIP8 antibody can explore these broader functions and their relevance in pathological conditions, including inflammatory diseases where dysregulated cell survival exacerbates tissue injury.

TNFAIP8 antibody is commonly used in western blotting, immunohistochemistry, and ELISA. Western blotting identifies isoform expression and quantitative changes, while immunohistochemistry reveals expression patterns in tumor samples and immune tissues, offering insights into microenvironmental interactions. ELISA based assays extend applications to serum measurements in clinical samples, where circulating TNFAIP8 may serve as a biomarker for disease severity. Flow cytometry applications have also been developed, enabling detection in heterogeneous cell populations.

Research into tumor biology, inflammation, and therapeutic resistance benefits from reliable antibodies such as TNFAIP8 antibody. By providing validated reagents, NSJ Bioreagents supports discovery of the molecular functions and disease associations of Tumor necrosis factor alpha induced protein 8, ensuring researchers have consistent and reproducible tools to study this important factor.

Application Notes

Optimal dilution of the TNFAIP8 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human TNFAIP8 was used as the immunogen for the TNFAIP8 antibody.

Storage

Store the TNFAIP8 antibody at -20oC.