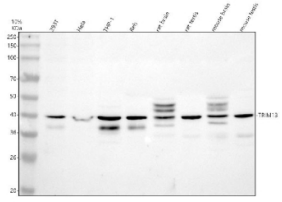
# TRIM13 Antibody / Tripartite motif-containing protein 13 (FY12202)

| Catalog No. | Formulation | Size |
|---|---|---|
| FY12202 | 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** | O60858 |
| **Applications** | Western Blot: 0.25-0.5ug/ml<br>ELISA: 0.1-0.5ug/ml |
| **Limitations** | This TRIM13 antibody is available for research use only. |



Western blot analysis of TRIM13 using anti-TRIM13 antibody. Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: human 293T whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human THP-1 whole cell lysates, Lane 4: human REH whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat testis tissue lysates, Lane 7: mouse brain tissue lysates, Lane 8: mouse testis tissue 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-TRIM13 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 band size for TRIM13 is at 47 kDa.

## Description

TRIM13 antibody detects Tripartite motif-containing protein 13, encoded by the TRIM13 gene on chromosome 13q14.2.

TRIM13 antibody is widely applied in studies of ubiquitination, endoplasmic reticulum (ER) stress, and apoptosis regulation. TRIM13 belongs to the TRIM family of E3 ubiquitin ligases, which share a tripartite motif composed of a RING domain, one or two B-box domains, and a coiled-coil region. Unlike many TRIM proteins, TRIM13 is anchored in the ER membrane, where it regulates protein degradation and stress signaling. Expression is enriched in lymphoid tissues, but it is also detected in other cell types.

Structurally, TRIM13 contains the canonical TRIM domains and a transmembrane region that localizes it to the ER. The RING domain confers E3 ligase activity, enabling ubiquitination of substrates targeted for degradation. Its localization to the ER places TRIM13 at the intersection of protein folding quality control and stress-induced apoptosis pathways.

Functionally, TRIM13 contributes to ER-associated degradation (ERAD), ubiquitinating misfolded proteins for proteasomal degradation. It also regulates apoptotic signaling by modulating expression of BCL2 family proteins and caspases. In immune cells, TRIM13 influences proliferation and survival, making it relevant to hematopoietic biology. Researchers use TRIM13 antibody to study ubiquitination pathways, ER stress responses, and apoptosis regulation.

Clinically, TRIM13 has been implicated in cancer and immune disorders. Deletions of the TRIM13 locus are common in B-cell chronic lymphocytic leukemia, suggesting tumor-suppressive functions. Reduced TRIM13 expression contributes to survival of malignant cells by attenuating apoptosis. Conversely, TRIM13 overexpression promotes cell death in some contexts. Variants in TRIM13 are also associated with autoimmune disease susceptibility. NSJ Bioreagents supplies TRIM13 antibody to facilitate research in oncology, hematology, and stress biology.

Experimentally, TRIM13 antibody is used in western blotting to detect the ~53 kDa protein, in immunohistochemistry to analyze expression in lymphoid tissue and tumors, and in immunofluorescence to study ER localization. Co-immunoprecipitation with TRIM13 antibody identifies ubiquitinated substrates and regulatory binding partners.

## Application Notes

Optimal dilution of the TRIM13 antibody should be determined by the researcher.

## Immunogen

E.coli-derived human TRIM13 recombinant protein (Position: R58-D302) was used as the immunogen for the TRIM13 antibody.

## Storage

After reconstitution, the TRIM13 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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