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TRIM30 Antibody
Catalog # ASC10742

Specification

TRIM30 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	P15533
Other Accession	NP_033125, 125347379
Reactivity	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**TRIM30 antibody can be used for detection of TRIM30 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.**

TRIM30 Antibody - Additional Information

Gene ID	**20128**

Target/Specificity
Trim30;

Reconstitution & Storage
TRIM30 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
TRIM30 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TRIM30 Antibody - Protein Information

Name Trim30a

Synonyms Rpt-1, Rpt1, Trim30

Function
Trans-acting factor that regulates gene expression of interleukin 2 receptor alpha chain. May affect IL2R-alpha expression through cis-acting negative regulatory elements or through competition with proteins that bind to enhancer or activator sequences. Negatively regulates Toll-like receptor (TLR)-mediated activation of NFKB by promoting degradation of TAB2 and TAB3 and preventing TRAF6 autoubiquitination. Negatively regulates production of reactive oxygen species (ROS) which inhibits activation of the NLRP3 inflammasome complex. This, in turn, regulates activation of CASP1 and subsequent cleavage of IL1B and IL18. No activity detected against a range of retroviruses including a number of lentiviruses, gammaretroviruses and

betaretroviruses.

Cellular Location
Cytoplasm. Nucleus.

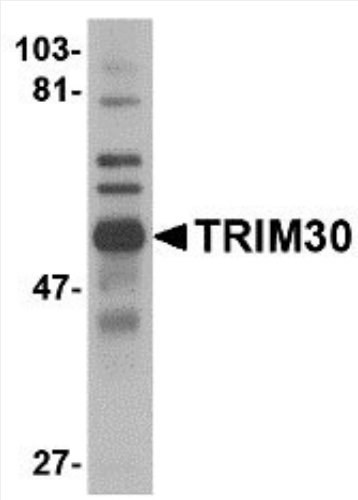
Tissue Location
Highly expressed in spleen and lymph nodes (at protein level).

TRIM30 Antibody - Protocols

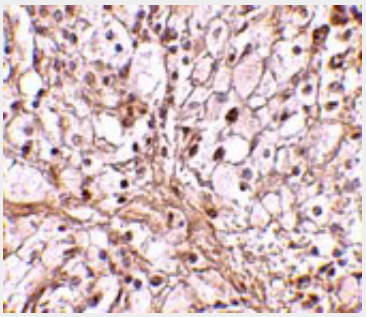
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRIM30 Antibody - Images

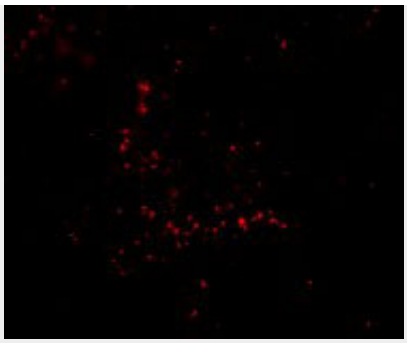


Western blot analysis of TRIM30 in mouse spleen tissue lysate with TRIM30 antibody at 1 µg/mL.



Immunohistochemistry of TRIM30 in mouse ovary tissue with TRIM30 antibody at 10 µg/mL.

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Immunofluorescence of TRIM30 in Human Ovary cells with TRIM30 antibody at 20 µg/mL.

TRIM30 Antibody - Background

TRIM30 Antibody: TRIM30 belongs to a family of the tripartite motif (TRIM) proteins involved in the regulation of cell proliferation, differentiation, development, oncogenesis, apoptosis and antiviral responses. The TRIM protein family is an expanding family of RING ('really interesting new gene') proteins, also known as RBCC proteins as they contain an RBCC motif, which comprises a RING domain, one or two B-boxes and a predicted coiled-coil region. Studies have shown that some TRIM family members are critical to innate immunity; TRIM5, TRIM19 and TRIM25, for example, have been shown to restrict viral infection. A recent study shows that TRIM30 functions as a negative modulator of the TLR signaling pathway, by targeting TAB2 and TAB3, and contributes to the inhibition of TLR-mediated NF-κB activation. The importance of TRIM30 in the attenuation or termination of NF-κB activation suggests that targeting of TAB2 and TAB3 by TRIM30α may be a mechanism for modulating many types of immune responses.

TRIM30 Antibody - References

Nisole S, Stoye JP, and Saib A. TRIM family proteins: retroviral restriction and antiviral defence. Nat. Rev. Microbiol.2005; 3:799-808.
Sakuma R, Noser JA, Ohmine S, et al. Rhesus monkey TRIM5 alpha restricts HIV-1 production through rapid degradation of viral Gag polyproteins. Nat. Med.2007; 13:631-635.
Gack MU, Shin YC, Joo CH, et al. TRIM25 RING-finger E3 ubiquitin ligase is essential for RIG-I-mediated antiviral activity. Nature2007; 446:916-920.
Patarca R, Freeman GJ, Schwartz J, et al. rpt-1, an intracellular protein from helper/inducer T cells that regulates gene expression of interleukin 2 receptor and human immunodeficiency virus type 1. Proc. Natl. Acad. Sci. USA1988; 85:2733-7.