

Store at
-20C
#99633**HOIP/RNF31 (E6M5B) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #Q96EP0	Entrez-Gene Id: 55072
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

HOIP/RNF31 (E6M5B) Rabbit mAb recognizes endogenous levels of total HOIP/RNF31 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human HOIP/RNF31 protein.

Background

HOIL-1-interacting protein (HOIP/RNF31), a RING-type E3 ubiquitin ligase, is the catalytic subunit of the Linear Ubiquitin Chain Assembly Complex (LUBAC) that is associated with TNF-R1 (1). Research studies have shown that the LUBAC consists of three subunits: HOIP, HOIL-1L, and Sharpin that facilitate canonical NF-κB activation in response to pro inflammatory cytokines through M1-linked linear ubiquitination of NEMO and RIP1 (2-6). As part of the LUBAC, HOIP has also been implicated in the negative regulation of interferon-mediated antiviral signaling through the suppression of RIG-I activation (7). The role of HOIP in LUBAC function and human disease is underscored by naturally occurring mutations in HOIP that impair LUBAC assembly and NF-κB activation. Patients that are homozygous for this mutation in HOIP have multi organ auto inflammation and immunodeficiency (8).

Background References

1. Haas, T.L. et al. (2009) *Mol Cell* 36, 831-44.
2. Smit, J.J. et al. (2012) *EMBO J* 31, 3833-44.
3. Tokunaga, F. et al. (2009) *Nat Cell Biol* 11, 123-32.
4. Tokunaga, F. et al. (2011) *Nature* 471, 633-6.
5. Blackwell, K. et al. (2013) *Mol Cell Biol* 33, 1901-15.
6. Ikeda, F. et al. (2011) *Nature* 471, 637-41.
7. Inn, K.S. et al. (2011) *Mol Cell* 41, 354-65.
8. Boisson, B. et al. (2015) *J Exp Med* 212, 939-51.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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