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LEU5 Rabbit pAb

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Catalog # AP58436

Product Information

Application	WB
Primary Accession	O60858
Reactivity	Human, Mouse, Rat
Predicted	Dog, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46988
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LEU5/RFP2
Epitope Specificity	151-250/407
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Single-pass membrane protein. Note=Concentrates and colocalizes with p62/SQSTM1 and ZFYVE1 at the perinuclear endoplasmic reticulum.
SIMILARITY	Belongs to the TRIM/RBCC family. Contains 1 B box-type zinc finger. Contains 1 RING-type zinc finger.
SUBUNIT	Interacts (via C-terminal domain) with VCP. Interacts with AKT1; the interaction ubiquitinates AKT1 and leads to its proteasomal degradation. Interacts with MDM2; the interaction ubiquitinates AKT1 and leads to its proteasomal degradation. Interacts with p62/SQSTM1.
Post-translational modifications	Auto-ubiquitinated; requires the RING-type zinc finger. Auto-polyubiquitination leads to proteasomal degradation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This gene is located on chromosome 13 within the minimal deletion region for B-cell chronic lymphocytic leukemia. Multiple alternatively spliced transcript variants have been found for this gene.

Additional Information

Gene ID	10206
Other Names	E3 ubiquitin-protein ligase TRIM13, 2.3.2.27, B-cell chronic lymphocytic leukemia tumor suppressor Leu5, Leukemia-associated protein 5, Putative tumor suppressor RFP2, RING finger protein 77, RING-type E3 ubiquitin transferase TRIM13, Ret finger protein 2, Tripartite motif-containing protein 13, TRIM13, LEU5, RFP2, RNF77

Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

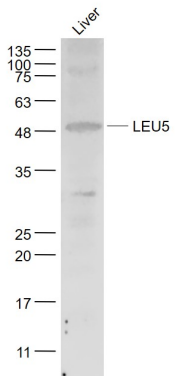
Protein Information

Name	TRIM13
Synonyms	LEU5, RFP2, RNF77
Function	Endoplasmic reticulum (ER) membrane anchored E3 ligase involved in the retrotranslocation and turnover of membrane and secretory proteins from the ER through a set of processes named ER- associated degradation (ERAD). This process acts on misfolded proteins as well as in the regulated degradation of correctly folded proteins. Enhances ionizing radiation-induced p53/TP53 stability and apoptosis via ubiquitinating MDM2 and AKT1 and decreasing AKT1 kinase activity through MDM2 and AKT1 proteasomal degradation. Regulates ER stress- induced autophagy, and may act as a tumor suppressor (PubMed:22178386). Also plays a role in innate immune response by stimulating NF-kappa-B activity in the TLR2 signaling pathway. Ubiquitinates TRAF6 via the 'Lys-29'-linked polyubiquitination chain resulting in NF-kappa-B activation (PubMed:28087809). Participates as well in T-cell receptor- mediated NF-kappa-B activation (PubMed:25088585). In the presence of TNF, modulates the IKK complex by regulating IKBKG/NEMO ubiquitination leading to the repression of NF-kappa-B (PubMed:25152375).
Cellular Location	Endoplasmic reticulum membrane; Single-pass membrane protein Note=Concentrates and colocalizes with p62/SQSTM1 and ZFYVE1 at the perinuclear endoplasmic reticulum

Background

This gene encodes a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This gene is located on chromosome 13 within the minimal deletion region for B-cell chronic lymphocytic leukemia. Multiple alternatively spliced transcript variants have been found for this gene.

Images



Sample:
Liver (Mouse) Lysate at 40 ug
Primary: Anti- LEU5 (AP58436) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 47 kD
Observed band size: 48 kD