

LEU5 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58436

Specification

LEU5 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, E

Primary Accession 060858 Reactivity Rat, Pig, Dog Host **Rabbit** Clonality **Polyclonal** Calculated MW 47 KDa **Physical State** Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human LEU5/RFP2

151-250/407 **Epitope Specificity**

Isotype **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/SOSTM1 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.

This product as supplied is intended for Important Note

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.



LEU5 Polyclonal Antibody - 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

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<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_E">E~~N/A</span>
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Storage

Store at -20 $^{\circ}$ 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 $^{\circ}$ C.

LEU5 Polyclonal Antibody - 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 ERassociated 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).

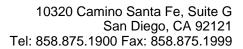
Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein Note=Concentrates and colocalizes with p62/SQSTM1 and ZFYVE1 at the perinuclear endoplasmic reticulum

LEU5 Polyclonal Antibody - Protocols

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

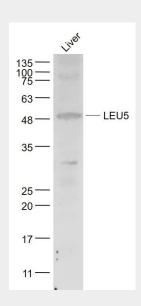
Western Blot





- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

LEU5 Polyclonal Antibody - Images



Sample:

Liver (Mouse) Lysate at 40 ug

Primary: Anti- LEU5 (bs-6395R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 47 kD Observed band size: 48 kD