SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-LEU5 antibody

Catalog Number: SL6395R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	LEU5
Immunogen:	KLH conjugated synthetic peptide derived from human LEU5/RFP2: 151-250/407
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog,Pig,Horse,Rabbit,Sheep)
Predicted MW.:	47kDa
Subcellular Location:	cytoplasmic The cell membrane
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. **Function:** E3 ubiquitin 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. **Subunit:** Interacts (via C-terminal domain) with VCP. Interacts with AKT1;

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	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. **Subcellular Location:** Endoplasmic reticulum membrane; Single-pass membrane protein. Note=Concentrates and colocalizes with p62/SQSTM1 and ZFYVE1 at the perinuclear endoplasmic reticulum. **Post-translational modifications:** Auto-ubiquitinated; requires the RING-type zinc finger. Auto-polyubiquitination leads to proteasomal degradation. **Similarity:** Belongs to the TRIM/RBCC family. Contains 1 B box-type zinc finger. Contains 1 RING-type zinc finger. **Database links:** UniProtKB/Swiss-Prot: O60858.2

[VALIDATION IMAGES]

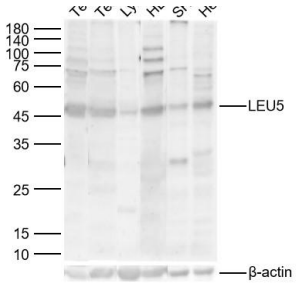


Figure 1. Sample: Lane 1: Mouse Testis Lysates Lane 2: Rat Testis Lysates Lane 3: Rat Lymph Lysates Lane 4: Human HL-60 cell Lysates Lane 5: Human SH-SY5Y cell Lysates Lane 6: Human HeLa cell Lysates Primary: Anti-LEU5 (SL6395R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47kDa Observed band size: 47kDa

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