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Ecadherin binding protein E7 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58986

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q75N03
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54519
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CBLL1/Ecadherin binding protein E7
Epitope Specificity	221-320/491
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 C2H2-type zinc finger. Contains 1 RING-type zinc finger.
SUBUNIT	Homodimer. Interacts with tyrosine-phosphorylated SRC substrates.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CBLL1, also known as HAKAI (meaning 'destruction' in Japanese), or RNF188 (RING finger protein 188), is a 491 amino acid protein that contains one C2H2-type zinc finger and one RING-type zinc finger. CBLL1 is believed to function as an E3 ubiquitin-protein ligase that accepts a ubiquitin residue from an E2 ubiquitin-conjugating enzyme and immediately transfers that residue to a protein that is targeted for degradation. More specifically, upon activation of c-Src, CBLL1 interacts with and ubiquitinates tyrosine-phosphorylated E-cadherin, thereby targeting the E-cadherin complex for endocytosis and disrupting epithelial cell-cell contacts. Via its role as an E-cadherin regulator, CBLL1 participates in cell adhesion and may also be involved in the regulation of epithelial-mesenchymal transitions.

Additional Information

Gene ID	79872
Other Names	E3 ubiquitin-protein ligase Hakai, 2.3.2.27, CBLL1 (HGNC:21225)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	CBLL1 (HGNC:21225)
Function	E3 ubiquitin-protein ligase that mediates ubiquitination of several tyrosine-phosphorylated Src substrates, including CDH1, CTTN and DOK1 (By similarity). Targets CDH1 for endocytosis and degradation (By similarity). Associated component of the WMM complex, a complex that mediates N6-methyladenosine (m6A) methylation of RNAs, a modification that plays a role in the efficiency of mRNA splicing and RNA processing (PubMed:29507755). Its function in the WMM complex is unknown (PubMed:29507755).
Cellular Location	Nucleus speckle. Nucleus, nucleoplasm. Cytoplasm {ECO:0000250|UniProtKB:Q9JIY2}. Note=Mainly nuclear with some fraction located in the cytoplasm. ZC3H13 is required to anchor component of the MACOM subcomplex, such as VIRMA, in the nucleus {ECO:0000250|UniProtKB:Q9JIY2}