

ULBP1 Rabbit pAb

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Catalog # AP58054

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BZM6
Reactivity	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27997
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ULBP1
Epitope Specificity	121-220/244
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	Cell membrane; Lipid-anchor, GPI-anchor. Endoplasmic reticulum. Note=Detected intracellularly in the endoplasmic reticulum of CMV-infected fibroblasts.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	N2DL1 is a human rat mouse ligand for the NKG2D receptor, together with at least ULBP2 and ULBP3. ULBPs activate multiple signaling pathways in primary NK cells, resulting in the production of cytokines and chemokines. Binding of ULBPs ligands to NKG2D induces calcium mobilization and activation of the JAK2, STAT5, ERK and PI3K kinase/Akt signal transduction pathway. The interaction with UL16 blocks the interaction with the NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP1 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface. ULBP1 is expressed in T-cells, B-cells, erythroleukemia cell lines and in a wide range of tissues.

Additional Information

Gene ID	80329
Other Names	UL16-binding protein 1, ALCAN-beta, NKG2D ligand 1, N2DL-1, NKG2DL1, Retinoic acid early transcript 1I, ULBP1, N2DL1, RAET1I
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

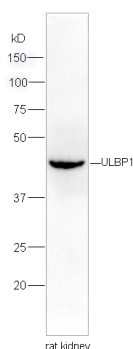
Protein Information

Name	ULBP1
Synonyms	N2DL1, RAET1I
Function	Binds and activates the KLRK1/NKG2D receptor, mediating natural killer cell cytotoxicity.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor. Endoplasmic reticulum. Note=In CMV-infected fibroblasts, detected in the endoplasmic reticulum/cis-Golgi
Tissue Location	Expressed in T-cells, B-cells, erythroleukemia cell lines and in a wide range of tissues including heart, brain, lung, liver, testis, lymph node, thymus, tonsil and bone marrow. Also found in fetal heart, brain, lung and liver

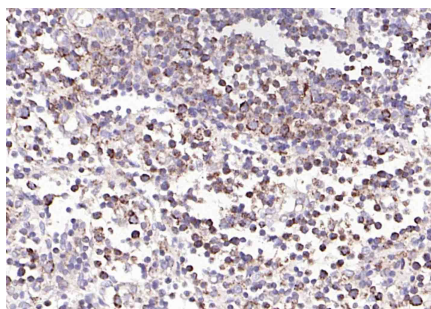
Background

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Images



Protein: rat kidney lysates, 30ug;
Primary: Anti-ULBP1 (AP58054) at 1:200;
Secondary: HRP conjugated Goat Anti-Rabbit
IgG(AP58054-HRP) at 1: 5000;
ECL excited the fluorescence;
Predicted band size : 25kD
Observed band size : 43kD



Paraformaldehyde-fixed, paraffin embedded (Rat lymph);
Antigen retrieval by boiling in sodium citrate buffer
(pH6.0) for 15min; Block endogenous peroxidase by 3%
hydrogen peroxide for 20 minutes; Blocking buffer
(normal goat serum) at 37°C for 30min; Antibody
incubation with (ULBP1) Polyclonal Antibody,
Unconjugated (AP58054) at 1:200 overnight at 4°C,
followed by operating according to SP Kit(Rabbit)
(sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.