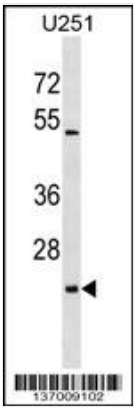
ULBP2 Antibody – Rabbit Polyclonal

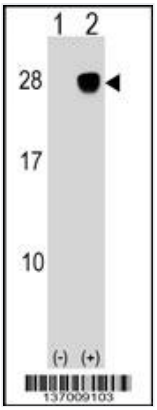
PRODUCT OVERVIEW

Product Name	ULBP2, Polyclonal Antibody
Full Product Name	ULBP2 Antibody (Center)
Product Gene Name	anti-ULBP2 antibody
Product Synonym Names	NKG2D ligand 2; N2DL-2; NKG2DL2; ALCAN-alpha; Retinoic acid early transcript 1H; UL16-binding protein 2; ULBP2; N2DL2; RAET1H
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.4 (lot specific)
Specificity	This ULBP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 88-116 amino acids from the Central region of human ULBP2.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	ULBP2 peptide (MBS9222258) is used for blocking the activity of ULBP2 antibody (MBS9202246)
Molecular Weight	27368
Immunogen Sequence Positions	88-116
OMIM	605698
3D Structure	ModBase 3D Structure for Q9BZM5
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-ULBP2 antibody	Immunology
Applications Tested/Suitable for anti-ULBP2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ULBP2 antibody	WB~~1:1000
Related Product Information for anti-ULBP2 antibody	Ligand for the NKG2D receptor, together with at least ULBP1 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. In CMV infected cells, interacts with soluble CMV glycoprotein UL16. The interaction with UL16 blocked the interaction with the NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP2 to be retained in the ER and cis-Golgi apparatus so that it does not reach the cell surface.

Product References and Citations for anti-ULBP2 antibody	McGilvray, R.W., et al. Int. J. Cancer 127(6):1412-1420(2010) Nuckel, H., et al. Leukemia 24(6):1152-1159(2010) Antoun, A., et al. Hum. Immunol. 71(6):610-620(2010) Davila, S., et al. Genes Immun. 11(3):232-238(2010) Ward, J., et al. PLoS Pathog. 5 (10), E1000613 (2009) :
Other Notes	Small volumes of anti-ULBP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ULBP2 purchase	MBS9202246 is an antibody targeting ULBP2. Also known as ULBP2 Antibody (Center). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ULBP2 antibody
ULBP2 Antibody (Center) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the ULBP2 antibody detected the ULBP2 protein (arrow).



Western Blot (WB) of anti-ULBP2 antibody
Western blot analysis of ULBP2 (arrow) using rabbit polyclonal ULBP2 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the ULBP2 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ULBP2. It may not necessarily be applicable to this product.

NCBI GI #	13376824
NCBI GeneID	80328
NCBI Accession #	NP_079493.1
UniProt Primary Accession #	Q9BZM5
UniProt Secondary Accession #	Q5VUN4
UniProt Related Accession #	Q9BZM5
GenBank Nucleotide #	NM_025217.3
NCBI Official Full Name	NKG2D ligand 2 preproprotein
NCBI Official Synonym Full Names	UL16 binding protein 2
NCBI Official Symbol	ULBP2
NCBI Official Synonym Symbols	N2DL2; RAET1H; NKG2DL2; ALCAN-alpha
UniProt Protein Name	NKG2D ligand 2
UniProt Synonym Protein Names	ALCAN-alpha; Retinoic acid early transcript 1H; UL16-binding protein 2
Protein Family	NKG2D ligand
UniProt Gene Name	ULBP2
UniProt Synonym Gene Names	N2DL2; RAET1H; N2DL-2; NKG2DL2

UniProt Entry Name	N2DL2_HUMAN
NCBI Protein Information	NKG2D ligand 2
NCBI Summary for ULBP2	This gene encodes a major histocompatibility complex (MHC) class I-related molecule that binds to the NKG2D receptor on natural killer (NK) cells to trigger release of multiple cytokines and chemokines that in turn contribute to the recruitment and activation of NK cells. The encoded protein undergoes further processing to generate the mature protein that is either anchored to membrane via a glycosylphosphatidylinositol moiety, or secreted. Many malignant cells secrete the encoded protein to evade immunosurveillance by NK cells. This gene is located in a cluster of multiple MHC class I-related genes on chromosome 6. [provided by RefSeq, Jul 2015]
UniProt Comments for ULBP2	ULBP2: Ligand for the NKG2D receptor, together with at least ULBP1 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. In CMV infected cells, interacts with soluble CMV glycoprotein UL16. The interaction with UL16 blocked the interaction with the NKG2D receptor, providing a mechanism by which CMV infected cells might escape the immune system. UL16 also causes ULBP2 to be retained in the ER and cis- Golgi apparatus so that it does not reach the cell surface. Belongs to the MHC class I family. Protein type: Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 6q25 Cellular Component: extracellular space; anchored to plasma membrane; cell surface Molecular Function: peptide antigen binding; natural killer cell lectin-like receptor binding Biological Process: antigen processing and presentation of peptide antigen via MHC class I; natural killer cell mediated cytotoxicity; natural killer cell activation
Research Articles on ULBP2	**1.** Data inticate that heat shock protein 60 (HSP60) interacted constitutively with NKG2D ligand ULBP2 and phosphatase of regenerating liver 3 (PRL-3) regulated HSP60 tyrosine phosphorylation.
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