

Rabbit anti-Human, Rat KIR2DL4 Polyclonal Antibody | anti-KIR2DL4 antibody

KIR2DL4 Antibody

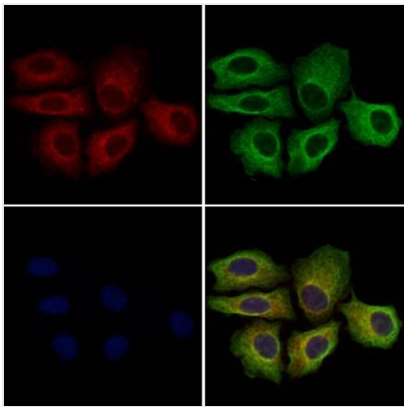
CATALOG # AAA329117	HOST Rabbit	REACTIVITY Human, Rat	APPLICATIONS ELISA
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PRODUCT SYNONYMS

KIR2DL4; Polyclonal Antibody; KIR2DL4 Antibody; CD_antigen=CD158d; CD158 antigen like family member D; CD158 antigen-like family member D; CD158d; G9P; KI2L4_HUMAN; Killer cell immunoglobulin like receptor 2DL4; Killer cell immunoglobulin like receptor; two domains; long cytoplasmic tail; 4; Killer cell immunoglobulin-like receptor 2DL4; Killer cell inhibitory receptor 103AS; Killer Ig receptor; KIR 103AS; KIR-103AS; KIR103; KIR103AS; MHC class I NK cell receptor KIR103AS; Natural killer cell inhibitory receptor; NK cell receptor; natural killer cell inhibitory receptor; OTTHUMP00000068612; OTTHUMP00000068614; OTTHUMP00000068615; anti-KIR2DL4 antibody

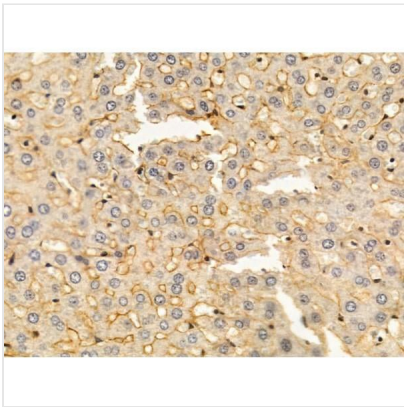
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KIR2DL4 Antibody detects endogenous levels of total KIR2DL4.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-KIR2DL4 antibody	ELISA
Immunogen	A synthesized peptide derived from human KIR2DL4, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



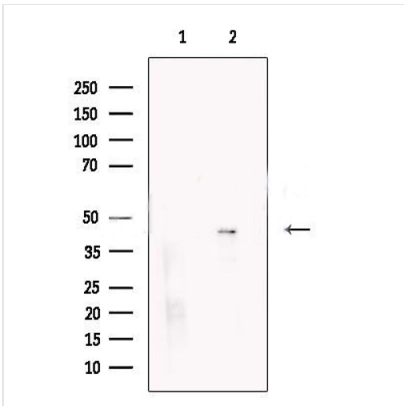
IF (Immunofluorescence)

AAA329117 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25Å°C. Samples were then incubated with primary Ab(AAA329117 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37Å°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



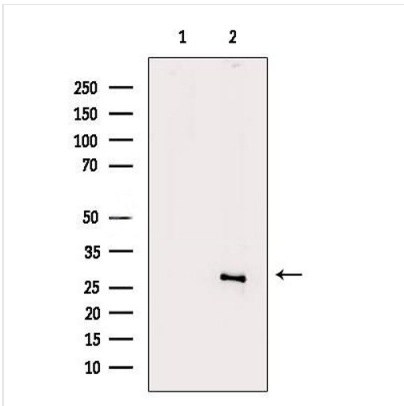
IHC (Immunohistochemistry)

AAA329117 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HeLa cells, using KIR2DL4 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from HepG2 cells, using KIR2DL4 Antibody. The lane on the left was treated with blocking peptide. Observed bands: 28 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-KIR2DL4 antibody

Function: Receptor for non-classical major histocompatibility class Ib HLA-G molecules. Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (peptide-bound HLA-G-B2M). In decidual NK cells, binds peptide-bound HLA-G-B2M complex and triggers NK cell senescence-associated secretory phenotype as a molecular switch to promote vascular remodeling and fetal growth in early pregnancy (PubMed:23184984, PubMed:29262349, PubMed:16366734). May play a role in balancing tolerance and antiviral-immunity at maternal-fetal interface by keeping in check the effector functions of NK, CD8+ T cells and B cells (PubMed:10190900, PubMed:16366734). Upon interaction with peptide-bound HLA-G-B2M, initiates signaling from the endosomal compartment leading to downstream activation of PRKDC-XRCC5 and AKT1, and ultimately triggering NF-kappa-B-dependent proinflammatory response (PubMed:20179272).

Subcellular Location: Cell membrane>Single-pass type I membrane protein. Early endosome membrane.

Tissue Specificity: Expressed in decidual NK cells and innate lymphoid cell type I (ILC1) (PubMed:29262349). Expressed in a subset of peripheral NK cells (PubMed:19304799).

Subunit Structure: Interacts with peptide-bound HLA-G-B2M heterotrimeric complex (PubMed:10190900, PubMed:16366734). Interacts with ARRB2 (PubMed:18604210).

Similarity: Belongs to the immunoglobulin superfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	325511396
NCBI GeneID	3805
UniProt Accession #	Q99706
Molecular Weight	Observed Molecular Weight: (Observed)41kD, 28kD. Predicted Molecular Weight: (Calculated)41kDa.
NCBI Official Full Name	Killer cell immunoglobulin-like receptor 2DL4
NCBI Official Synonym Full Names	killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4
NCBI Official Symbol	KIR2DL4
NCBI Official Synonym Symbols	G9P; CD158D; KIR103; KIR-2DL4; KIR103AS; KIR-103AS
NCBI Protein Information	killer cell immunoglobulin-like receptor 2DL4
UniProt Protein Name	Killer cell immunoglobulin-like receptor 2DL4
UniProt Gene Name	KIR2DL4
UniProt Synonym Gene Names	CD158D; KIR103AS; KIR-103AS

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kir2dl4-antibody-elisa/329117>