

Rabbit anti-Human OVOL2 Polyclonal Antibody | anti-OVOL2 antibody

Anti-OVOL2 Antibody Picoband

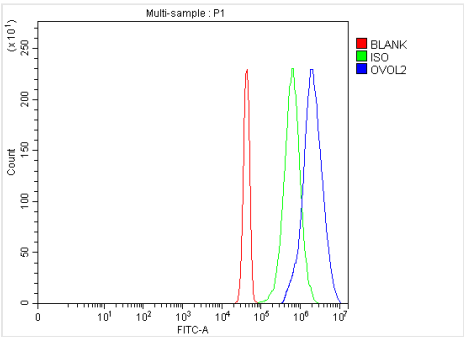
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127464	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

OVOL2; Polyclonal Antibody; Anti-OVOL2 Antibody Picoband; BAG family molecular chaperone regulator 5; C-C motif chemokine ligand 16 ; C-C motif chemokine 16; Chemokine CC-4; HCC-4; Chemokine LEC; IL-10-inducible chemokine; LCC-1; Liver-expressed chemokine; Lymphocyte and monocyte chemoattractant; LMC; Monotactin-1; MTN-1; NCC-4; Small-inducible cytokine A16; CCL16; ILINCK; NCC4; SCYA16; anti-OVOL2 antibody

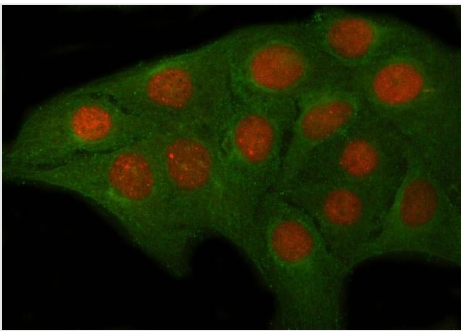
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mainly expressed in liver, also found in spleen and thymus.Highly expressed in LPS- and IFN-gamma- activated monocytes, weakly in some lymphocytes, including natural killer cells, gamma-delta T-cells, and some T-cell clones.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-OVOL2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human OVOL2 recombinant protein (Position: M1-E271).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Shows chemotactic activity for lymphocytes and monocytes but not neutrophils. Also shows potent myelosuppressive activity, suppresses proliferation of myeloid progenitor cells. Recombinant SCYA16 shows chemotactic activity for monocytes and THP-1 monocytes, but not for resting lymphocytes and neutrophils. Induces a calcium flux in THP-1 cells that were desensitized by prior expression to RANTES.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



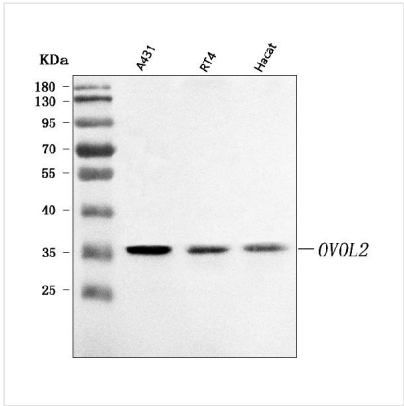
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of JK cells using anti-OVOL2 antibody (AAA127464).Overlay histogram showing JK cells stained with AAA127464 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-OVOL2 Antibody (AAA127464, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of OVOL2 using anti-OVOL2 antibody (AAA127464) and anti-Tubulin Alpha antibody (M03989-3).OVOL2 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-OVOL2 Antibody (AAA127464) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of OVOL2 using anti-OVOL2 antibody (AAA127464).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human A431 whole cell lysates,Lane 2: human RT4 whole cell lysates,Lane 3: human Hacat whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-OVOL2 antigen affinity purified polyclonal antibody (#AAA127464) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for OVOL2 at approximately 37 kDa. The expected band size for OVOL2 is at 30 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OVOL2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-OVOL2 antibody	Primary Antibodies; Angiogenesis; Cardiovascular; Chemokines; Cytokines; Immunology; Innate Immunity; Macrophage/Inflammation

References	1. Davidson, A. E., Liskova, P., Evans, C. J., Dudakova, L., Noskova, L., Pontikos, N., Hartmannova, H., Hodanova, K., Stranecky, V., Kozmik, Z., Levis, H. J., Idigo, N., and 14 others. Autosomal-dominant corneal endothelial dystrophies CHED1 and PPCD1 are allelic disorders caused by non-coding mutations in the promoter of OVOL2. Am. J. Hum. Genet. 98: 75-89, 2016. 2. Gwilliam, R., Liskova, P., Filipiec, M., Knoch, S., Jirsova, K., Huckle, E. J., Stables, C. L., Bhattacharya, S. S., Hardcastle, A. J., Deloukas, P., Ebenezer, N. D. Posterior polymorphous corneal dystrophy in Czech families maps to chromosome 20 and excludes the VSX1 gene. Invest. Ophthalm. Vis. Sci. 46: 4480-4484, 2005. 3. Hartz, P. A. Personal Communication. Baltimore, Md. 6/26/2015.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	40807463
NCBI GeneID	58495
NCBI Accession #	NP_067043.2
NCBI GenBank Nucleotide #	NM_021220.2
UniProt Accession #	Q9BRP0; Q5T8B4; Q9BX22; Q9HA54; Q9Y4M0
Molecular Weight	30,438 Da
NCBI Official Full Name	transcription factor Ovo-like 2
NCBI Official Synonym Full Names	ovo-like zinc finger 2
NCBI Official Symbol	OVOL2
NCBI Official Synonym Symbols	ZNF339; EUROIMAGE566589
NCBI Protein Information	transcription factor Ovo-like 2; hOvo2; ovo-like 2; zinc finger protein 339
UniProt Protein Name	Transcription factor Ovo-like 2
UniProt Gene Name	OVOL2
UniProt Synonym Gene Names	ZNF339; hOvo2
UniProt Entry Name	OVOL2_HUMAN

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.