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Goat Anti-FLVCR Antibody

Peptide-affinity purified goat antibody

Catalog # AF1423a

Specification

Goat Anti-FLVCR Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9Y5Y0
Other Accession	NP_054772, 28982
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**59863**

Goat Anti-FLVCR Antibody - Additional Information

Gene ID 28982

Other Names
Feline leukemia virus subgroup C receptor-related protein 1, Feline leukemia virus subgroup C receptor, hFLVCR, FLVCR1, FLVCR

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-FLVCR Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-FLVCR Antibody - Protein Information

Name FLVCR1 {ECO:0000303|PubMed:16439531, ECO:0000312|HGNC:HGNC:24682}

Function
Uniporter that mediates the transport of extracellular choline and ethanolamine into cells, thereby playing a key role in phospholipid biosynthesis (PubMed:<a

href="http://www.uniprot.org/citations/37100056" target="_blank">37100056, PubMed:38693265, PubMed:38778100, PubMed:39306721). Choline and ethanolamine are the precursors of phosphatidylcholine and phosphatidylethanolamine, respectively, the two most abundant phospholipids (PubMed:38693265, PubMed:38778100). Transport is not coupled with proton transport and is exclusively driven by the choline (or ethanolamine) gradient across the plasma membrane (PubMed:38693265, PubMed:38778100). Also acts as a heme b transporter that mediates heme efflux from the cytoplasm to the extracellular compartment (PubMed:15369674, PubMed:20610401, PubMed:22483575, PubMed:23187127, PubMed:27923065).

Cellular Location
[Isoform 1]: Cell membrane; Multi-pass membrane protein

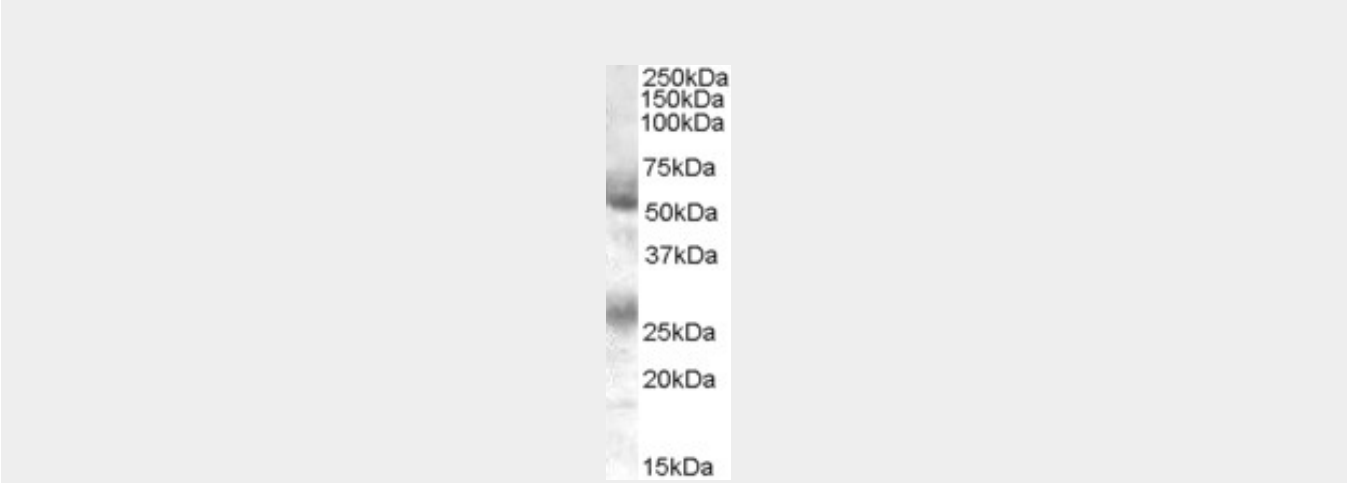
Tissue Location
Found all hematopoietic tissues including peripheral blood lymphocytes. Some expression is found in pancreas and kidney.

Goat Anti-FLVCR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-FLVCR Antibody - Images



AF1423a (0.1 µg/ml) staining of Human Bone Marrow lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-FLVCR Antibody - References

Enhanced alternative splicing of the FLVCR1 gene in Diamond Blackfan anemia disrupts FLVCR1 expression and function that are critical for erythropoiesis. Rey MA, et al. Haematologica, 2008 Nov. PMID 18815190.
Comprehensive mapping of receptor-functioning domains in feline leukemia virus subgroup C receptor FLVCR1. Brown JK, et al. J Virol, 2006 Feb. PMID 16439531.
Genomic annotation of 15,809 ESTs identified from pooled early gestation human eyes. Choy KW, et al. Physiol Genomics, 2006 Mar 13. PMID 16368877.
Investigation of a putative role for FLVCR, a cytoplasmic heme exporter, in Diamond-Blackfan anemia. Quigley JG, et al. Blood Cells Mol Dis, 2005 Sep-Oct. PMID 15996880.
The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.