

# FLVCR Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP54831

## Product Information

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<b>Application</b>	WB, IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9Y5Y0</a>
<b>Reactivity</b>	Rat, Pig
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	59863
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from Human FLVCR
<b>Epitope Specificity</b>	451-550/555
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Cell membrane.
<b>SIMILARITY</b>	Belongs to the major facilitator superfamily. Feline leukemia virus subgroup C receptor (TC 2.A.1.28.1) family.
<b>SUBUNIT</b>	Interacts with HPX.
<b>DISEASE</b>	Defects in FLVCR1 are the cause of posterior column ataxia with retinitis pigmentosa (PCARP) [MIM:609033]. A neurodegenerative syndrome beginning in infancy with areflexia and retinitis pigmentosa. Nyctalopia (night blindness) and peripheral visual field loss are usually evident during late childhood or teenage years, with subsequent progressive constriction of the visual fields and loss of central retinal function over time. A sensory ataxia caused by degeneration of the posterior columns of the spinal cord results in a loss of proprioceptive sensation that is clinically evident in the second decade of life and gradually progresses. Scoliosis, camptodactyly, achalasia, gastrointestinal dysmotility, and a sensory peripheral neuropathy are variable features of the disease. Affected individuals have no clinical or radiological evidence of cerebral or cerebellar involvement. Note=Defective neuronal heme transmembrane export due to FLVCR1 mutations may abrogate the neuroprotective effects of neuroglobin and initiate an apoptotic cascade that results in the selective degeneration of photoreceptors in the neurosensory retina and sensory neurons in the posterior spinal cord.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	FLVCR is responsible for the exportation of cytoplasmic heme groups. It is believed that it may protect developing erythroid cells from heme toxicity. Expression of FLVCR in cells will cause susceptibility to FeLV-C (Feline leukemia virus subgroup C) in vitro. FLVCR is found in all hematopoietic tissues, including peripheral blood lymphocytes and fetal liver, and some expression is found in pancreas and kidney. It is down-regulated in haemopoietic progenitor cells undergoing differentiation and hemoglobinization.

## Additional Information

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Gene ID	28982
Other Names	Feline leukemia virus subgroup C receptor-related protein 1, Feline leukemia virus subgroup C receptor, hFLVCR, FLVCR1, FLVCR
Target/Specificity	Found all hematopoietic tissues including peripheral blood lymphocytes. Some expression is found in pancreas and kidney.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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

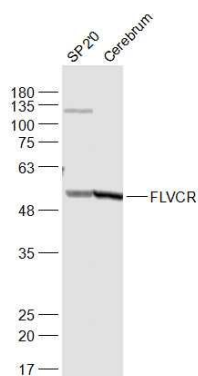
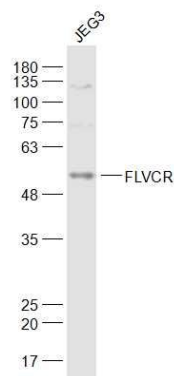
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Name	FLVCR1 {ECO:0000303   PubMed:16439531, ECO:0000312   HGNC:HGNC:24682}
Function	Uniporter that mediates the transport of extracellular choline and ethanolamine into cells, thereby playing a key role in phospholipid biosynthesis (PubMed: <a href="#">37100056</a> , PubMed: <a href="#">38693265</a> , PubMed: <a href="#">38778100</a> , PubMed: <a href="#">39306721</a> ). Choline and ethanolamine are the precursors of phosphatidylcholine and phosphatidylethanolamine, respectively, the two most abundant phospholipids (PubMed: <a href="#">38693265</a> , PubMed: <a href="#">38778100</a> ). Transport is not coupled with proton transport and is exclusively driven by the choline (or ethanolamine) gradient across the plasma membrane (PubMed: <a href="#">38693265</a> , PubMed: <a href="#">38778100</a> ). Also acts as a heme b transporter that mediates heme efflux from the cytoplasm to the extracellular compartment (PubMed: <a href="#">15369674</a> , PubMed: <a href="#">20610401</a> , PubMed: <a href="#">22483575</a> , PubMed: <a href="#">23187127</a> , PubMed: <a href="#">27923065</a> ).
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.

## Images

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Sample:  
JEG3(Human) Cell Lysate at 30 ug  
Primary: Anti-FLVCR (AP54831) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 60 kD  
Observed band size: 60 kD



#### Sample:

SP2/0(Mouse) Cell Lysate at 30 ug

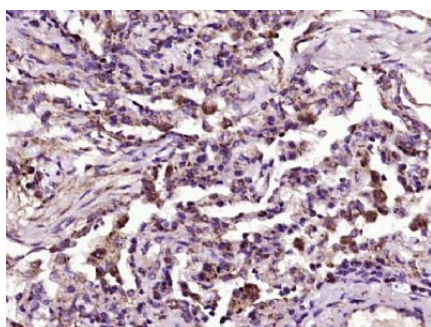
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-FLVCR (AP54831) at 1/1000 dilution

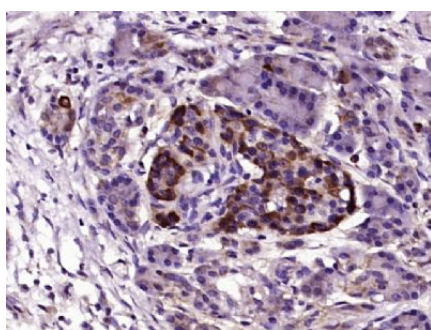
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 60 kD

Observed band size: 60 kD



Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); 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 (FLVCR) Polyclonal Antibody, Unconjugated (AP54831) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human Pancreatic cancer ); 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 (FLVCR) Polyclonal Antibody, Unconjugated (AP54831) at 1:400 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'.