



FLVCR Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54831

Specification

FLVCR Polyclonal Antibody - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Physical State
Immunogen

Epitope Specificity Isotype **Purity** affinity purified by Protein A

Buffer

SUBCELLULAR LOCATION SIMILARITY

SUBUNIT DISEASE WB, IHC-P, IHC-F, IF, ICC, E

O9Y5Y0
Rat, Pig
Rabbit
Polyclonal
60 KDa
Liquid
KLH conjugated synthetic peptide derived
from Human FLVCR

from Human FLVCR 451-550/555 IgG

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Cell membrane. Belongs to the major facilitator superfamily. Feline leukemia virus subgroup C receptor (TC 2.A.1.28.1) family. Interacts with HPX. 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 vears, 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



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.

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Important Note

Background Descriptions

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.

FLVCR Polyclonal 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

Target/Specificity

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

Dilution

WB~~1:1000<br \><span class
="dilution_IHC-P">IHC-P~~N/A<br \><span class
="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A<br \>ICC~~N/A

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.

FLVCR Polyclonal 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:15369674, PubMed:<a href="http://www.uniprot.org/citations/20610401" target="http://www.uniprot.org/citations/20610401" target="http://www.uniprot.org/citations/2061040

 $target="_blank">20610401, PubMed:22483575, PubMed:23187127, PubMed:27923065).$

Cellular Location

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

Tissue Location

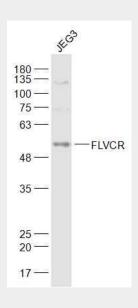
Found all hematopoietic tissues including peripheral blood lymphocytes. Some expression is found in pancreas and kidney.

FLVCR Polyclonal 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
- <u>Cell Culture</u>

FLVCR Polyclonal Antibody - Images





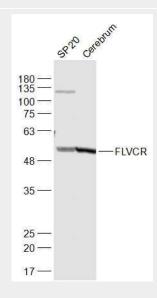
Sample:

JEG3(Human) Cell Lysate at 30 ug

Primary: Anti-FLVCR (bs-12344R) at 1/1000 dilution

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

Predicted band size: 60 kD Observed band size: 60 kD



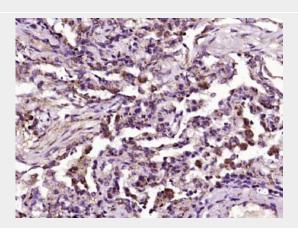
Sample:

SP2/0(Mouse) Cell Lysate at 30 ug Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-FLVCR (bs-12344R) at 1/1000 dilution

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

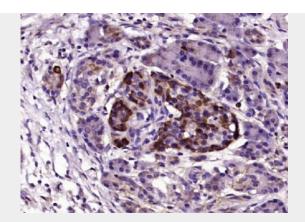
Predicted band size: 60 kD Observed band size: 60 kD



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 (bs-12344R) 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 (bs-12344R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.