abcam

Product datasheet

Anti-FLVCR1 antibody ab115865

1 Abreviews 1 Image

Overview

Product name	Anti-FLVCR1 antibody
Description	Rabbit polyclonal to FLVCR1
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse **Predicted to work with:** Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Human
Immunogen	Synthetic peptide corresponding to Mouse FLVCR1 aa 223-272 (internal sequence). Sequence: GPKEVSTACATAVLGNQLGTAVGFLLPPVLVPALGTQ NSTGLLAHTQNNT Database link: NP_001074728 Run BLAST with Run BLAST with
Positive control	Mouse brain lysate.
General notes	This product was previously labelled as FLVCR

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab115865** in the following tested applications.

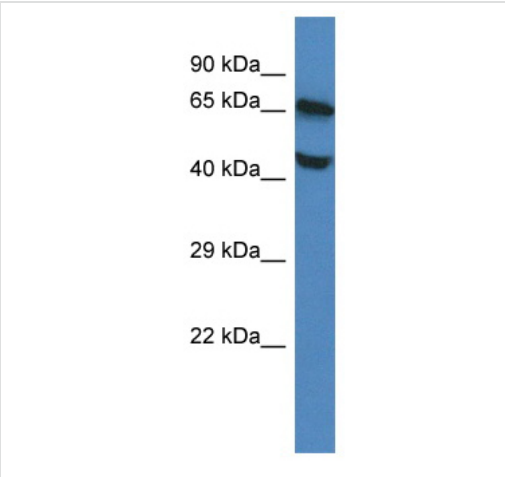
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 60 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

Function	Heme transporter that exports cytoplasmic heme. It can also export coproporphyrin and protoporphyrin IX, which are both intermediate products in the heme biosynthetic pathway. Does not export bilirubin. Heme export depends on the presence of HPX and may be required to protect developing erythroid cells from heme toxicity. Heme export also provides protection from heme or ferrous iron toxicities in liver and brain. Causes susceptibility to FeLV-C in vitro.
Tissue specificity	Found all hematopoietic tissues including peripheral blood lymphocytes. Some expression is found in pancreas and kidney.
Involvement in disease	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.
Sequence similarities	Belongs to the major facilitator superfamily. Feline leukemia virus subgroup C receptor (TC 2.A.1.28.1) family.
Developmental stage	Down-regulated in haemopoietic progenitor cells undergoing differentiation and hemoglobinization. Abundant in fetal liver.
Cellular localization	Cell membrane.

Images



Western blot - Anti-FLVCR1 antibody (ab115865)

Anti-FLVCR1 antibody (ab115865) at 1 µg/ml + Mouse brain lysate at 10 µg

Predicted band size: 60 kDa

Gel concentration: 12%

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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