

**FLVC2 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9680b****Specification**

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**FLVC2 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9UPI3](#)**FLVC2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 55640**Other Names**

Feline leukemia virus subgroup C receptor-related protein 2, Calcium-chelate transporter, CCT, FLVCR2, C14orf58

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**FLVC2 Antibody (C-term) Blocking Peptide - Protein Information****Name** FLVCR2**Synonyms** C14orf58**Function**

Putative heme b importer/sensor involved in heme homeostasis in response to the metabolic state of the cell and to diet. May act as a sensor of cytosolic and/or mitochondrial heme levels to regulate mitochondrial respiration processes, ATP synthesis and thermogenesis. At low heme levels, interacts with components of electron transfer chain (ETC) complexes and ATP2A2, leading to ubiquitin-mediated degradation of ATP2A2 and inhibition of thermogenesis. Upon heme binding, dissociates from ETC complexes to allow switching from mitochondrial ATP synthesis to thermogenesis. Alternatively, in coordination with ATP2A2 may mediate calcium transport and signaling in response to heme.

**Cellular Location**

Mitochondrion membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Primarily resides in mitochondria where it interacts with components of the electron transfer chain complexes III, IV and V. Colocalizes with ATP2A2 at the mitochondrial- ER contact junction.

**Tissue Location**

Expressed in non-hematopoietic tissues, with relative abundant expression in brain, placenta, lung, liver and kidney (PubMed:20823265). Also expressed in hematopoietic tissues (fetal liver, spleen, lymph node, thymus, leukocytes and bone marrow) (PubMed:20823265). Found in acidophil cells of the pituitary that secrete growth hormone and prolactin (at protein level) (PubMed:14729055).

**FLVC2 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**FLVC2 Antibody (C-term) Blocking Peptide - Images****FLVC2 Antibody (C-term) Blocking Peptide - Background**

The FLVCR2 gene encodes a transmembrane protein that belongs to the major facilitator superfamily of secondary carriers that transport small solutes in response to chemiosmotic ion gradients, such as calcium.

**FLVC2 Antibody (C-term) Blocking Peptide - References**

Meyer, E., et al. Am. J. Hum. Genet. 86(3):471-478(2010) Brown, J.K., et al. J. Virol. 80(4):1742-1751(2006) Brasier, G., et al. Exp. Cell Res. 293(1):31-42(2004) Heilig, R., et al. Nature 421(6923):601-607(2003)