

ERVWE1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17034b**Specification**

ERVWE1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9UQF0](#)**ERVWE1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 30816**Other Names**

Syncytin-1, Endogenous retrovirus group W member 1, Env-W, Envelope polyprotein gPr73, Enverin, HERV-7q Envelope protein, HERV-W envelope protein, HERV-W_7q212 provirus ancestral Env polyprotein, Syncytin, Surface protein, SU, gp50, Transmembrane protein, TM, gp24, ERVW-1, ERVWE1

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.

ERVWE1 Antibody (C-term) Blocking Peptide - Protein Information**Name** ERVW-1**Synonyms** ERVWE1**Function**

This endogenous retroviral envelope protein has retained its original fusogenic properties and participates in trophoblast fusion and the formation of a syncytium during placenta morphogenesis. May induce fusion through binding of SLC1A4 and SLC1A5 (PubMed:10708449, PubMed:12050356, PubMed:23492904).

Cellular Location

[Surface protein]: Cell membrane; Peripheral membrane protein. Note=The surface protein is not anchored to the membrane, but localizes to the extracellular surface through its binding to TM.
[Syncytin-1]: Virion.

Tissue Location

Expressed at higher level in placental syncytiotrophoblast. Expressed at intermediate level in testis. Seems also to be found at low level in adrenal tissue, bone marrow, breast, colon, kidney, ovary, prostate, skin, spleen, thymus, thyroid, brain and trachea. Both mRNA and protein levels are significantly increased in the brain of individuals with multiple sclerosis, particularly in astrocytes and microglia.

ERVWE1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ERVWE1 Antibody (C-term) Blocking Peptide - Images

ERVWE1 Antibody (C-term) Blocking Peptide - Background

Many different human endogenous retrovirus (HERV) families are expressed in normal placental tissue at high levels, suggesting that HERVs are functionally important in reproduction. This gene is part of an HERV provirus on chromosome 7 that has inactivating mutations in the gag and pol genes. This gene is the envelope glycoprotein gene which appears to have been selectively preserved. The gene's protein product is expressed in the placental syncytiotrophoblast and is involved in fusion of the cytotrophoblast cells to form the syncytial layer of the placenta. The protein has the characteristics of a typical retroviral envelope protein, including a furin cleavage site that separates the surface (SU) and transmembrane (TM) proteins which form a heterodimer. Alternatively spliced transcript variants encoding the same protein have been found for this gene.

ERVWE1 Antibody (C-term) Blocking Peptide - References

Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :Oppelt, P., et al. Gynecol. Endocrinol. 25(11):741-747(2009) Gimenez, J., et al. DNA Res. 16(4):195-211(2009) Larsen, J.M., et al. Cancer Lett. 280(1):44-49(2009) Noorali, S., et al. Appl. Immunohistochem. Mol. Morphol. 17(4):319-328(2009)