10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ERVW-1 Picoband Antibody

Catalog # ABO12308

Specification

Anti-ERVW-1 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q9UQF0
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Syncytin-1(ERVW-1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ERVW-1 Picoband Antibody - 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_7q21.2 provirus ancestral Env polyprotein, Syncytin, Surface protein, SU, gp50, Transmembrane protein, TM, gp24, ERVW-1, ERVWE1

Calculated MW
59866 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Transmembrane protein: Cell membrane ; Single-pass type I membrane protein .

Tissue Specificity
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. .

Protein Name
Syncytin-1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human ERVW-1(406-435aa YYVNQSGIVTEKVKEIRDRIQRRAEELRNT).

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-ERVW-1 Picoband Antibody - 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.

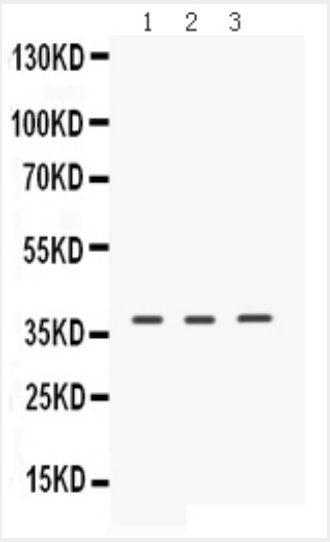
Anti-ERVW-1 Picoband Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ERVW-1 Picoband Antibody - Images



Anti- ERVW-1 Picoband antibody, ABO12308, Western blottingAll lanes: Anti ERVW-1 (ABO12308) at 0.5ug/mlLane 1: Mouse Testis Tissue Lysate at 50ugLane 2: COLO320 Whole Cell Lysate at 40ugLane 3: 22RV1 Whole Cell Lysate at 40ugPredicted bind size: 60KDObserved bind size: 39KD

Anti-ERVW-1 Picoband Antibody - Background

ERVW-1 is also known as ERVWE1. The human ERVWE1 locus is derived from a human endogenous retrovirus-W (HERV-W) provirus located on chromosome 7. This provirus has inactivating mutations in the gag and pol genes, but the envelope glycoprotein gene has been selectively preserved. The product of this gene, syncytin, 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.