

Polyclonal Anti-ERVW-1 Picoband™ Antibody

Catalog Number: PB9622

Description

Gene Name	endogenous retrovirus group W, member 1
Recommended Protein Name	Syncytin-1
Lot No.	0961512Da782296
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: human, mouse, rat
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ERVW-1(406-435aa YYVNQSGIVTEKVKVEIRDRIQRRAEELRNT).
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Hu, Ms, Rat	-

Tested Species: In-house tested species with positive results.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, 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.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

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.

Reference

1. "Entrez Gene: ERVWE1 endogenous retroviral family W, env(C7), member 1 (syncytin)".
2. Li F, Nellåker C, Sabunciyar S, Yolken RH, Jones-Brando L, Johansson AS, Owe-Larsson B, Karlsson H. "Transcriptional derepression of the ERVWE1 locus following influenza A virus infection." *J Virol*, 2014 Apr.