

For Research Use Only

HERV-FRD Polyclonal antibody

Catalog Number: 18101-1-AP



Basic Information

Catalog Number:

18101-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12380

GenBank Accession Number:

BC068585

GeneID (NCBI):

405754

UNIPROT ID:

P60508

Full Name:

HERV-FRD provirus ancestral Env polyprotein

Calculated MW:

538 aa, 60 kDa

Observed MW:

60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:3000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HepG2 cells, L02 cells

Background Information

HERV-FRD (Human Endogenous Retrovirus FRD Envelope Protein) belongs to the W family of the HERV family. Also known as Syncytin-2, this protein is a key member of the syncytin family and is encoded by an env gene from an ancient retrovirus integrated into the host genome. It primarily mediates cell-cell fusion, which is essential for forming the placental syncytiotrophoblast and maintaining normal pregnancy. Furthermore, HERV-FRD exhibits immunosuppressive functions: its transmembrane subunit contains an immunosuppressive domain that inhibits maternal immune rejection of the fetus and protects the placenta from immune attack. Abnormal expression of HERV-FRD is associated with pregnancy-related disorders such as preeclampsia and intrauterine growth restriction, as well as with the development and progression of certain cancers.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

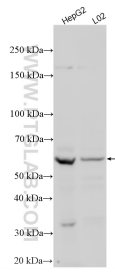
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18101-1-AP (HERV-FRD antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.