

# HERV-FRD Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP13018A

## Product Information

---

<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P60508</a>
<b>Other Accession</b>	<a href="#">P61556</a> , <a href="#">NP_997465.1</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Monkey
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB32774
<b>Calculated MW</b>	59523
<b>Antigen Region</b>	79-107

## Additional Information

---

<b>Gene ID</b>	405754
<b>Other Names</b>	Syncytin-2, Endogenous retrovirus group FRD member 1, Envelope polyprotein, HERV-FRD, HERV-FRD_6p241 provirus ancestral Env polyprotein, Surface protein, SU, Transmembrane protein, TM, ERVFRD-1, ERVFRDE1
<b>Target/Specificity</b>	This HERV-FRD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 79-107 amino acids from the N-terminal region of human HERV-FRD.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	HERV-FRD Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	ERVFRD-1
<b>Synonyms</b>	ERVFRDE1

<b>Function</b>	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. The interaction with MFSD2A is apparently important for this process (PubMed: <a href="#">18988732</a> ).
<b>Cellular Location</b>	Virion. [Transmembrane protein]: Cell membrane; Single-pass membrane protein
<b>Tissue Location</b>	Expressed at higher level in placenta. Expressed at lower level in adrenal, bone marrow, brain, breast, colon, kidney, lung, ovary, peripheral blood lymphocytes, prostate, skin, spleen, testis, thymus, thyroid, trachea.

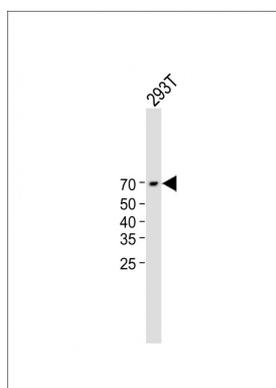
## Background

Human endogenous retroviruses (HERVs) make up approximately 8% of the human genome. Although most HERVs are nonfunctional, the HERV-W (ERVWE1; MIM 604659) and HERV-FRD envelope (env) proteins can induce cell-cell fusion when expressed in cells possessing appropriate receptors (Blaise et al., 2003 [PubMed 14557543]).

## References

Vargas, A., et al. J. Mol. Biol. 392(2):301-318(2009)  
 Chen, C.P., et al. Biol. Reprod. 79(5):815-823(2008)  
 Malassine, A., et al. Retrovirology 5, 6 (2008) :  
 Mangeney, M., et al. Proc. Natl. Acad. Sci. U.S.A. 104(51):20534-20539(2007)  
 Malassine, A., et al. Placenta 28 (2-3), 185-191 (2007) :

## Images



All lanes : Anti-HERV-FRD Antibody (N-term) at 1:1000 dilution Lane 1: 293T whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 65kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- [Demethylase FTO-mediated m6A modification of SIK1 modulates placental cytotrophoblast syncytialization in type 2 diabetes mellitus](#)
- [Tubulin deetyrosination promotes human trophoblast syncytium formation.](#)
- [PLAC1 is involved in human trophoblast syncytialization.](#)
- [Effects of individually silenced N-glycosylation sites and non-synonymous single-nucleotide polymorphisms on the fusogenic function of human syncytin-2.](#)
- [Involvement of nephrin in human placental trophoblast syncytialization.](#)