abcam

Product datasheet

Anti-HERV-FRD antibody ab230235

1 References 3 Images

Overview

Product name	Anti-HERV-FRD antibody
Description	Rabbit polyclonal to HERV-FRD
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Chimpanzee, Cynomolgus monkey, Gorilla, Orangutan
Immunogen	Recombinant fragment corresponding to Human HERV-FRD aa 1-250. Database link: **P60508** Run BLAST with Run BLAST with
Positive control	WB: HeLa, HepG2 and A431 whole cell lysate. IHC-P: Human kidney and adrenal gland tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab230235 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/5000. Detects a band of approximately 60 kDa (predicted molecular weight: 60 kDa).
IHC-P		1/20 - 1/200.

Target

Function Retroviral envelope proteins mediate receptor recognition and membrane fusion during early infection. Endogenous envelope proteins may have kept, lost or modified their original function during evolution. This endogenous envelope protein has retained its original fusogenic properties. Can make pseudotypes with MLV, HIV-1 or SIV-1 virions and confer infectivity.
SU mediates receptor recognition.
TM anchors the envelope heterodimer to the viral membrane through one transmembrane domain. The other hydrophobic domain, called fusion peptide, mediates fusion of the viral membrane with the target cell membrane.

Tissue specificity 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.

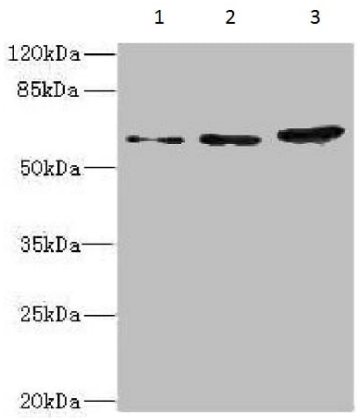
Sequence similarities Belongs to the gamma type-C retroviral envelope protein family. HERV class-I FRD env subfamily.

Domain Contains the CKS-17 immunosuppressive domain present in many retroviral envelope proteins. As a synthetic peptide, it inhibits immune function in vitro and in vivo.

Post-translational modifications Specific enzymatic cleavages in vivo yield the mature SU and TM proteins.
The CXXC motif is highly conserved across a broad range of retroviral envelope proteins. It is thought to participate in the formation of a labile disulfide bond possibly with the CX6CC motif present in the transmembrane protein. Isomerization of the intersubunit disulfide bond to an SU intrachain disulfide bond is thought to occur upon receptor recognition in order to allow membrane fusion.

Cellular localization Cell membrane and Virion.

Images



Western blot - Anti-HERV-FRD antibody (ab230235)

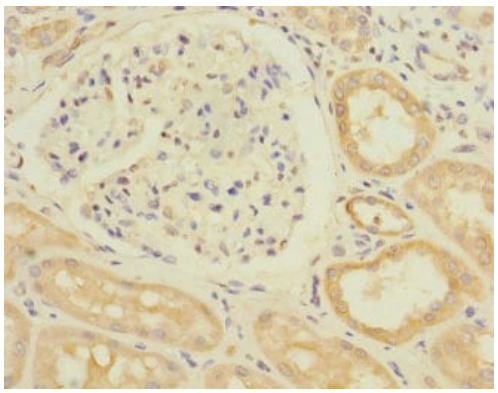
All lanes : Anti-HERV-FRD antibody (ab230235) at 1/1000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 2 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 3 : A431 (Human epidermoid carcinoma cell line) whole cell lysate

Secondary
All lanes : Goat polyclonal to rabbit IgG at 1/10000 dilution

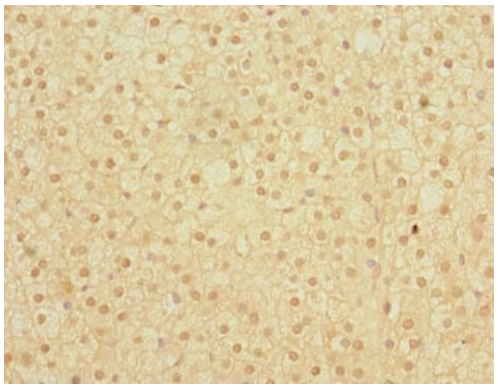
Developed using the ECL technique.

Predicted band size: 60 kDa
Observed band size: 60 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HERV-FRD antibody (ab230235)

Paraffin-embedded human kidney tissue stained for HERV-FRD with ab230235 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HERV-FRD antibody (ab230235)

Paraffin-embedded human adrenal gland tissue stained for HERV-FRD with ab230235 at 1/100 dilution in immunohistochemical analysis.

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