bs-15466R **[Primary Antibody]**

ERVFRD-1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 405754 **SWISS:** P60508

Target: ERVFRD-1

Immunogen: KLH conjugated synthetic peptide derived from human HERV-FRD : 331-430/538.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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 (By similarity).
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 (By similarity).

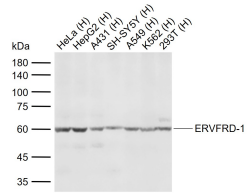
Applications: **WB** (1:500-2000)

Reactivity: Human

Predicted MW.: 21/37/58 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Human HeLa cell lysates Lane 2: Human HepG2 cell lysates Lane 3: Human A431 cell lysates Lane 4: Human SH-SY5Y cell lysates Lane 5: Human A549 cell lysates Lane 6: Human K562 cell lysates Lane 7: Human 293T cell lysates Primary: Anti-ERVFRD-1 (bs-15466R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 21/37/58 kDa Observed band size: 60 kDa

SELECTED CITATIONS

- **[IF=5.168]** Díaz-Carballo et al. Cytotoxic stress induces transfer of mitochondria-associated human endogenous retroviral RNA and proteins between cancer cells. (2017) Oncotarget. 8:95945-95964 Other ;Human. 29221178
- **[IF=4.43]** Díaz-Carballo, David, et al. "Therapeutic potential of antiviral drugs targeting chemorefractory colorectal adenocarcinoma cells overexpressing endogenous retroviral elements." Journal of Experimental & Clinical Cancer Research 34.1 (2015): 81. WB ;="Human". 26260344