



Rabbit Anti-ERV31 antibody

SL14631R

Product Name:	ERV31
Chinese Name:	ERV31包膜蛋白抗体
Alias:	Endogenous retroviral sequence 3; Endogenous retrovirus group 3 member 1; ENR1_HUMAN; Envelope polyprotein; envR; ERV R; ERV-3 envelope protein; ERV-R envelope protein; ERV3 1 envelope protein; ERV3; ERV3 envelope protein; ERV3-1; ERVR; FLJ23884; HERV R; HERV-R envelope protein; HERV-R_7q21.2 provirus ancestral Env polyprotein; HERVR; SU; TM; Transmembrane protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	66kDa
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ERV31:411-510/604
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 lost its fusogenic properties. It can inhibit cell growth through decrease expression of cyclin

B1 and increased expression of p21 in vitro. 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.

Subcellular Location:

Virion.

Tissue Specificity:

Expressed at higher level in adrenal, sebaceous glands and placenta. Expressed at lower level in bone marrow, brain, breast, colon, heart, kidney, liver, lung, ovary, PBL, prostate, skin, spleen, testis, thymus, thyroid, trachea.

Post-translational modifications:

Specific enzymatic cleavages in vivo yield the mature SU and TM proteins (By similarity). Has been mainly detected in vivo as an 65 kDa unprocessed polyprotein precursor. 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.

Similarity:

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

SWISS:

Q14264

Gene ID:

2086

Database links:

[Entrez Gene: 2086](#) Human

[Omim: 131170](#) Human

[SwissProt: Q14264](#) Human

[Unigene: 250693](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

