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ERV31 Rabbit pAb

Catalog # AP96274

Product Information

Application	WB
Primary Accession	Q14264
Other Accession	Q14264
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67942
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ERV31
Epitope Specificity	411-510/604
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Virion.
SIMILARITY	Belongs to the gamma type-C retroviral envelope protein family. HERV class-I R env subfamily.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	2086
Other Names	ERV-R; ERV3; ERVR; HERV-R; HERVR; envR; ENR1_HUMAN; ERV3-1; ERV-3 envelope protein (ERV3 envelope protein); ERV3-1 envelope protein; Envelope polyprotein; HERV-R envelope protein (ERV-R envelope protein);

	HERV-R_7q21.2 provirus ancestral Env polyprotein; endogenous retrovirus group 3 member 1, envelope; endogenous retroviral sequence 3 (includes zinc finger protein H-plk/HPF9); endogenous retroviral sequence 3; endogenous retrovirus group 3, member 1; endogenous retrovirus group 3 member 1
Target/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.
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	ERV3-1
Synonyms	ERV3
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 lost its fusogenic properties. It can inhibit cell growth through decrease expression of cyclin B1 and increased expression of p21 in vitro.
Cellular Location	Virion.
Tissue Location	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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.