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ERV3 Antibody (C-Term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13435B

Product Information

Application	WB, IHC-P, E
Primary Accession	Q14264
Other Accession	NP_001007254.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	67942
Antigen Region	445-474

Additional Information

Gene ID	2086
Other Names	Endogenous retrovirus group 3 member 1 Env polyprotein, ERV-3 envelope protein, ERV3 envelope protein, ERV3-1 envelope protein, Envelope polyprotein, HERV-R envelope protein, ERV-R envelope protein, HERV-R_7q212 provirus ancestral Env polyprotein, Surface protein, SU, Transmembrane protein, TM, ERV3-1, ERV3
Target/Specificity	This ERV3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 445-474 amino acids from the C-terminal region of human ERV3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	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.
Precautions	ERV3 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

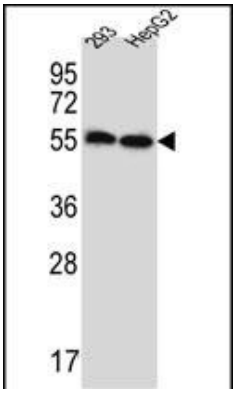
Background

The human genome includes many retroelements including the human endogenous retroviruses (HERVs). ERV3, one of the most studied HERVs, is thought to have integrated 30 to 40 million years ago and is present in higher primates with the exception of gorillas. Taken together, the observation of genome conservation, the detection of transcript expression, and the presence of conserved ORFs is circumstantial evidence for a functional role. A functional role is also suggested by the observation that downregulation of ERV3 is reported in choriocarcinoma. [provided by RefSeq].

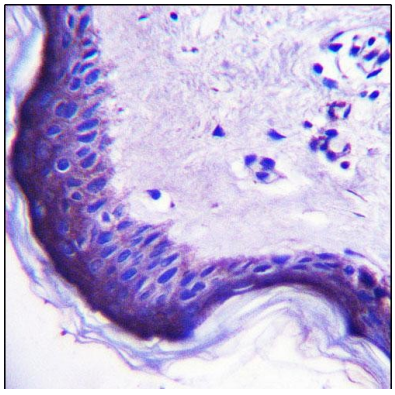
References

Andersson, A.C., et al. J. Virol. 79(14):9270-9284(2005)
Herve, C.A., et al. Genomics 83(5):940-943(2004)
Blaise, S., et al. Proc. Natl. Acad. Sci. U.S.A. 100(22):13013-13018(2003)
de Parseval, N., et al. J. Virol. 77(19):10414-10422(2003)
Andersson, A.C., et al. Virology 297(2):220-225(2002)

Images



ERV3 Antibody (C-Term) (Cat. #AP13435b) western blot analysis in 293,HepG2 cell line lysates (35ug/lane).This demonstrates the ERV3 antibody detected the ERV3 protein (arrow).



ERV3 Antibody (C-Term) (Cat. #AP13435b)immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ERV3 Antibody (C-Term) for immunohistochemistry. Clinical relevance has not been evaluated.

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