10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ERV3 Antibody (C-Term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13435B

Specification

ERV3 Antibody (C-Term) - 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**

ERV3 Antibody (C-Term) - 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~~1:10~50

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.

ERV3 Antibody (C-Term) - Protein Information

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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.

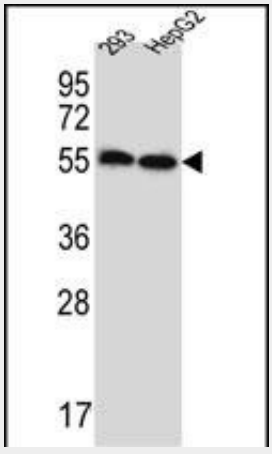
Tissue Location
Expressed at higher level in adrenal, sebaceous glands and placenta. Expressed at lower level in bone marrow, brain, breast, colon, heart, kidney, liver, lung, ovary, PBL, prostate, skin, spleen, testis, thymus, thyroid, trachea

ERV3 Antibody (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

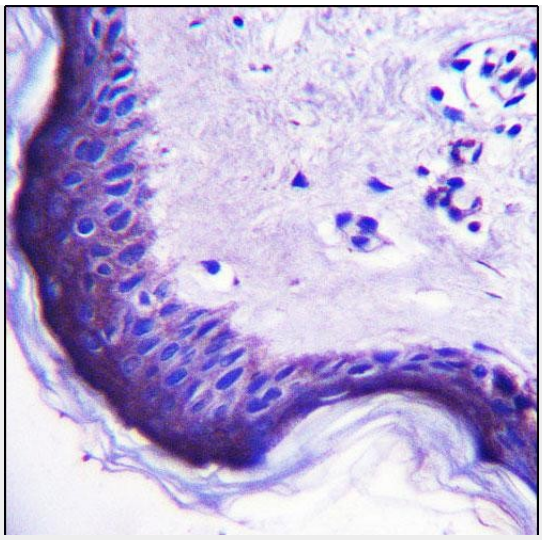
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ERV3 Antibody (C-Term) - 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).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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.

ERV3 Antibody (C-Term) - 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].

ERV3 Antibody (C-Term) - 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)