

Anti-ERV31 Antibody

Catalog # ABO12768

Product Information

Application	WB
Primary Accession	Q14264
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Endogenous retrovirus group 3 member 1 Env polyprotein(ERV3-1) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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_7q21.2 provirus ancestral Env polyprotein, Surface protein, SU, Transmembrane protein, TM, ERV3-1, ERV3
Calculated MW	67942
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	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. .
Source	Eukaryota
Protein Name	Endogenous retrovirus group 3 member 1 Env polyprotein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ERV31 (575-604aa LELDDEGKVIKEITAKIQKLAHIPVQTWKG).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

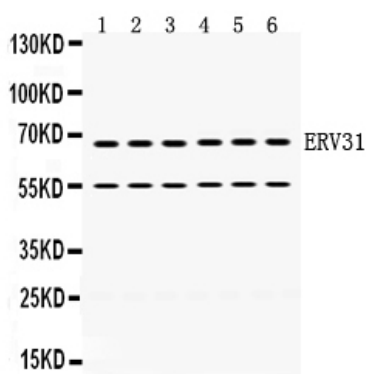
Protein Information

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

HERV-R_7q21.2 provirus ancestral Env polyprotein, also known as ERV3-1, is a protein that in humans is encoded by the ERV3 gene. By radiation hybrid analysis, the ERV3 gene is mapped to chromosome 7q11.2. 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.

Images



Anti- ERV31 antibody, ABO12768, Western blottingAll lanes: Anti ERV31 (ABO12768) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: 22RV1 Whole Cell Lysate at 40ugLane 3: HEPG2 Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugLane 5: A431 Whole Cell Lysate at 40ugLane 6: HT1080 Whole Cell Lysate at 40ugPredicted bind size: 68KDObserved bind size: 68KD

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