

Anti-ERV31 Antibody
Catalog # ABO12768**Specification**

Anti-ERV31 Antibody - 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.

Anti-ERV31 Antibody - 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 MW KDa

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. .

Protein Name

Endogenous retrovirus group 3 member 1 Env polyprotein

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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 reconstitution, 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.

Anti-ERV31 Antibody - 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.

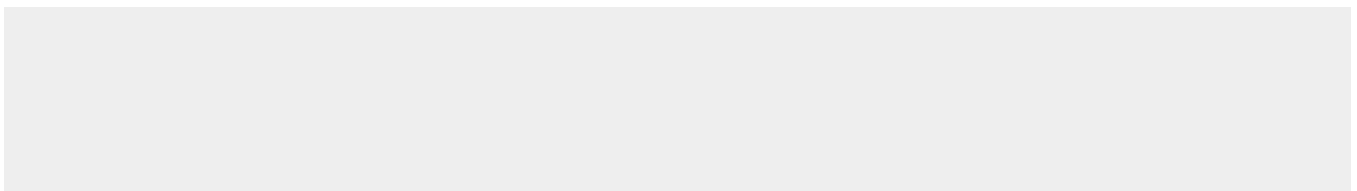
Tissue Location

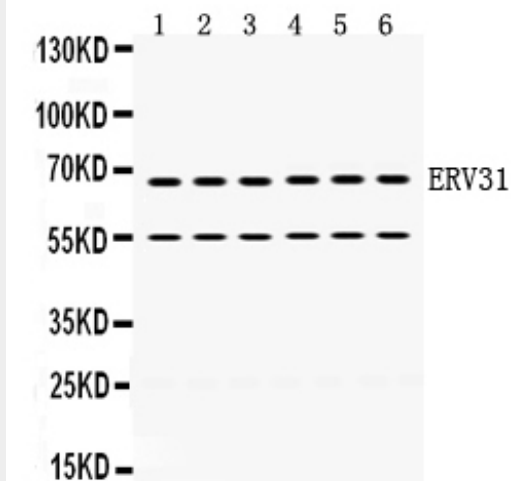
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Anti-ERV31 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-ERV31 Antibody - Images



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

Anti-ERV31 Antibody - 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.