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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 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.**

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
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

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 Cytomety
- Cell Culture

Anti-ERV31 Antibody - Images

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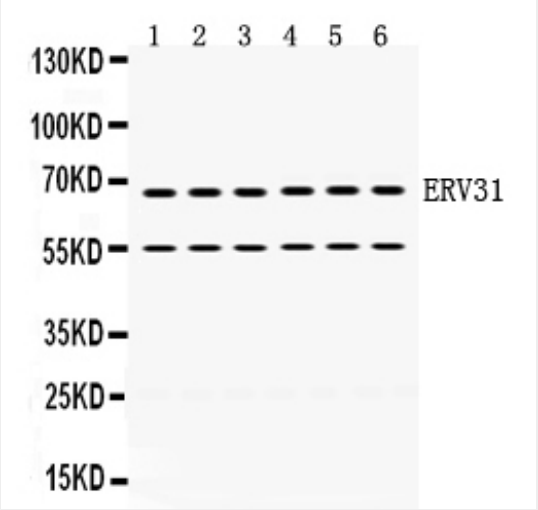

Anti- ERV31 antibody, ABO12768, Western blottingAll lanes: Anti ERV31 (ABO12768) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: 22RV1 Whole Cell Lysate at 40ugLane 3: HEPG2 Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugLane 5: A431 Whole Cell Lysate at 40ugLane 6: HT1080 Whole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

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.