

## ARG58609 anti-ERV3 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes ERV3
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ERV3
Species	Human
Immunogen	KLH-conjugated synthetic peptide between aa. 445-474 of Human ERV3.
Conjugation	Un-conjugated
Alternate Names	ERV3 envelope protein; Endogenous retrovirus group 3 member 1 Env polyprotein; HERV-R envelope protein; HERV-R; envR; ERV3-1 envelope protein; SU; ERV-R envelope protein; HERV-R_7q21.2 provirus ancestral Env polyprotein; ERV3; ERVR; Envelope polyprotein; ERV-3 envelope protein; HERVR; ERV-R; TM

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

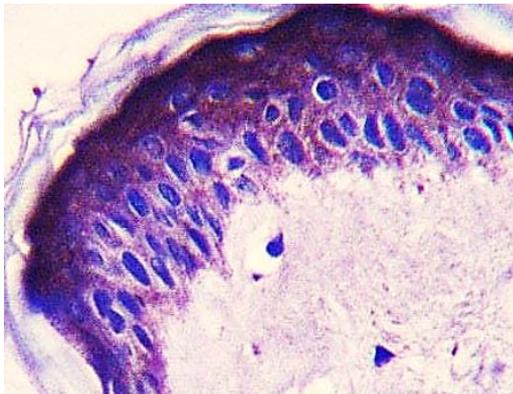
## Bioinformation

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Gene Symbol	ERV3-1
Gene Full Name	endogenous retrovirus group 3, member 1
Background	<p>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, Jul 2008]</p>
Function	<p>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.</p> <p>SU mediates receptor recognition.</p> <p>TM anchors the envelope heterodimer to the viral membrane through one transmembrane domain. The other hydrophobic domain, called fusion peptide, mediates fusion of the viral membrane with the target cell membrane (By similarity). [UniProt]</p>
Calculated Mw	68 kDa
PTM	<p>Specific enzymatic cleavages in vivo yield the mature SU and TM proteins (By similarity). Has been mainly detected in vivo as an 65 kDa unprocessed polyprotein precursor.</p> <p>The CXXC motif is highly conserved across a broad range of retroviral envelope proteins. It is thought to participate in the formation of a labile disulfide bond possibly with the CX6CC motif present in the transmembrane protein. Isomerization of the intersubunit disulfide bond to an SU intrachain disulfide bond is thought to occur upon receptor recognition in order to allow membrane fusion (By similarity). [UniProt]</p>

## Images

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ARG58609 anti-ERV3 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human skin tissue stained with ARG58609 anti-ERV3 antibody.