

Rat anti-Human CLAUDIN6/9 Monoclonal Antibody | anti-EPOR antibody

anti-human Claudin 6 and Claudin 9 monoclonal antibody

CATALOG # AAA71482	HOST Rat	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay
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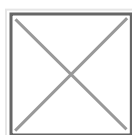
PRODUCT SYNONYMS

CLAUDIN6/9; Monoclonal Antibody; anti-human Claudin 6 and Claudin 9 monoclonal antibody; CLDN6; CLDN9; anti-EPOR antibody

PRODUCT SPECIFICATIONS

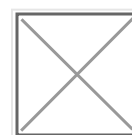
Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	YD-9H8
Specificity	anti-human Claudin 6 and Claudin 9
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	508
Applicable Applications for anti-EPOR antibody	ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human Claudin 9
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



Application Data

Fig.2: SDS-PAGE analysis of purified YD-9H8 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified YD-9H8 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



Application Data

Fig.1: GM-1111. BOSC23 cells were transiently transfected with an expression vector encoding either Claudin 9 (red curve), Claudin 6 (green curve) or an irrelevant protein (control transfectant). Binding of YD-9H8 was detected with a PE conjugated secondary antibody. A positive signal was obtained with Claudin 9 and Claudin 6 transfected cells.

ADDITIONAL INFORMATION

Related Product Information for anti-EPOR antibody	Background: Claudin 6 and Claudin 9 belong to the claudin family which constitutes a large group of fourtransmembrane domain proteins (1). Claudins are integral tight junction proteins that are responsible for maintaining the integrity of epithelial cell architecture, the control of paracellular transport and cell polarity. The expression pattern of claudins is tissue specific, most tissues express multiple claudins, which can interact in both homotypic and heterotypic fashion to form the tight junction strands (2). Several claudin proteins have been shown to be abnormally expressed in cancers. The differential expression of these proteins between tumour and normal cells, in addition to their membrane localisation, makes them prime candidates for cancer therapy (2). Members of the claudin family, including Claudin 6 and 9 are expressed in the liver and play a critical role in Hepatitis C Infection. They function as coreceptors in HCV entry and assume a role in HCV dissemination, replication and pathogenesis (3).
References	Kazumasa M, Mikio F, Kazushi F, Shoichiro T (1999). Claudin multigene family encoding fourtransmembrane domain protein components of tight junction strands. Proc Natl Acad Sci U S A. 19; 96(2): 511–516. Morin PJ (2005). Claudin proteins in human cancer: promising new targets for diagnosis and therapy. Cancer Res. 1;65(21):9603-6. Zheng A, Yuan F, Li Y, Zhu F, Hou P, Li J, Song X, Ding M, Deng H (2007). Claudin-6 and claudin-9 function as additional coreceptors for hepatitis C virus. J Virol. 81(22):12465-71. Fofana I, Zona L, Thumann C, Heydmann L, Durand SC, Lupberger J, Blum HE, Pessaux P, Gondeau C, Reynolds GM, McKeating JA, Grunert F, Thompson J, Zeisel MB, Baumert TF (2013). Functional analysis of claudin-6 and claudin-9 as entry factors for hepatitis C virus infection of human hepatocytes by using monoclonal antibodies. J Virol. 87(18):10405-10

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503591
NCBI GeneID	2057
NCBI Accession #	NP_000112.1
NCBI GenBank Nucleotide #	NM_000121.3
UniProt Accession #	P19235; Q15443; Q2M205; B2RCG4
Molecular Weight	35,809 Da
NCBI Official Full Name	erythropoietin receptor
NCBI Official Synonym Full Names	erythropoietin receptor
NCBI Official Symbol	EPOR
NCBI Official Synonym Symbols	EPO-R
NCBI Protein Information	erythropoietin receptor
UniProt Gene Name	EPOR
UniProt Synonym Gene Names	EPO-R
UniProt Entry Name	EPOR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/claudin6-9-antibody-clone-yd-9h8-competitive-elisa-flow-cytometry-elisa/71482>