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Datasheet for ABIN6145260

anti-PAX6 antibody (AA 1-300)

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Overview

Quantity:	100 µL
Target:	PAX6
Binding Specificity:	AA 1-300
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAX6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-300 of human PAX6 (NP_000271.1).
Sequence:	<p>MQNSHSGVNQ LGGVFVNGRP LPDSTRQKIV ELAHSGARPC DISRILQVSN GCVSKILGRY YETGSIRPRA IGGSKPRVAT PEVVSZIAQY KRECPSIFAW EIRDRLLESEG VCTNDNIPSV SSINRVLRLN ASEKQQMGAD GMYDKLRMLN GQTGSWGTRP GWYPGTSVPG QPTQDGCQQQ EGGGENTNSI SSSNGEDSDEA QMRLQLKRKL QRNRTSFTQE QIEALEKEFE RTHYPDVAFAR ERLAAKIDLP EARIQVWFSN RRAKWRREEK LRNQRQASN TPSHIPSSS FSTSVMQPIP</p>
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	PAX6
Alternative Name:	PAX6 (PAX6 Products)
Background:	<p>This gene encodes a homeobox and paired domain-containing protein that binds DNA and functions as a regulator of transcription. Activity of this protein is key in the development of neural tissues, particularly the eye. This gene is regulated by multiple enhancers located up to hundreds of kilobases distant from this locus. Mutations in this gene or in the enhancer regions can cause ocular disorders such as aniridia and Peter's anomaly. Use of alternate promoters and alternative splicing result in multiple transcript variants encoding different isoforms.,AN,AN2,ASGD5,D11S812E,FVH1,MGDA,WAGR,PAX6,Epigenetics & Nuclear Signaling,Transcription Factors,Signal Transduction,MAPK-Erk Signaling Pathway,MAPK-P38 Signaling Pathway,Cell Biology & Developmental Biology,Neuroscience,Cell Type Marker,Stem Cells,Neural Stem Cell marker,PAX6</p>
Molecular Weight:	46 kDa/48 kDa
Gene ID:	5080
UniProt:	P26367
Pathways:	Peptide Hormone Metabolism , Carbohydrate Homeostasis

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

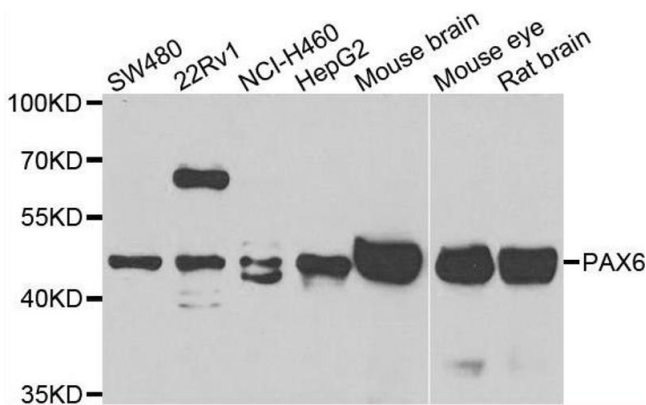
Product cited in:

Zhang, Xu, Xu, Wei, Xu: "Protein kinase A inhibitor, H89, significantly enhances survival rate of dissociated human embryonic stem cells following cryopreservation." in: **Cell proliferation**, Vol. 49, Issue 5, pp. 589-98, (2017) ([PubMed](#)).

Zhang, Xu, Xu, Wei, Xu: "Protein kinase A inhibitor, H89, enhances survival and clonogenicity of dissociated human embryonic stem cells through Rho-associated coiled-coil containing protein kinase (ROCK) inhibition." in: **Human reproduction (Oxford, England)**, Vol. 31, Issue 4, pp. 832-43, (2016) ([PubMed](#)).

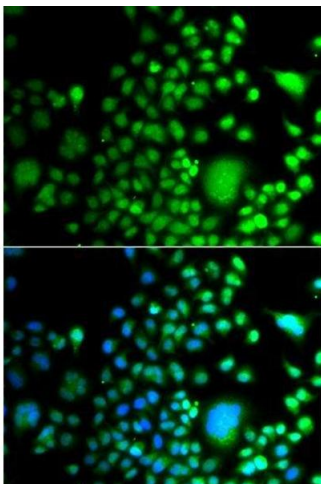
Xu, Zhang, Xu, Wei, Xu: "Sensitivity of human embryonic stem cells to different conditions during cryopreservation." in: **Cryobiology**, Vol. 71, Issue 3, pp. 486-92, (2016) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using PAX6 antibody.



Immunofluorescence

Image 2. Immunofluorescence analysis of A549 cells using PAX6 antibody.