Datasheet for ABIN6657913

anti-SIX3 antibody (Internal Region)

2 Images | 3 Publications

Go to Product page

Overview

Quantity:	25 µL
Target:	SIX3
Binding Specificity:	Internal Region
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIX3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Purpose:	Six3 Antibody
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of mouse Six3 protein.
Isotype:	IgG
Cross-Reactivity (Details):	This antibody reacts with mouse Six3.
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Sterility:	Sterile filtered

Target Details

Target:	SIX3
Alternative Name:	Six3 (SIX3 Products)
Background:	Synonyms: rabbit anti-Six3 antibody, Six-3, Six 3, Homeobox protein SIX3, Sine oculis homeobox homolog 3 Background: Six3 (also known as sine oculis homeobox homolog 3) is involved in the development of the visual system and forebrain. Six3 is a nuclear protein that is reported to exist in two forms by alternative splicing of the gene product. Six3 is first expressed at E6.5 of mouse embryonic development around the anterior border. At E8.5, expression is found over the anterior neural plate. At E9.5, it is in the diencephalic part of the ventral forebrain, optic vesicles, olfactory placodes and Rathke's pouch. In later stages, Six3 is present in hypothalamus, eyes and pituitary. Gene Name: Six3
Gene ID:	20473, 59939908
UniProt:	Q62233
Pathways:	Protein targeting to Nucleus

Application Details

Application Notes:	ELISA_Dilution: 1:10,000-1:15,000 Immunohistochemistry_Dilution: 1:100-1:250 IF_Microscopy_Dilution: 1:200 - 1:1,000 Western_Blot_Dilution: 1:500 - 1:2,000 Other: User Optimized
Comment:	Suggested Applications: IF, Multiplex This affinity purified antibody has been tested for use in ELISA, immunohistochemistry and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 37 kDa in size corresponding to Six3 by western blotting in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Handling

	Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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 vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiry Date:	3 months

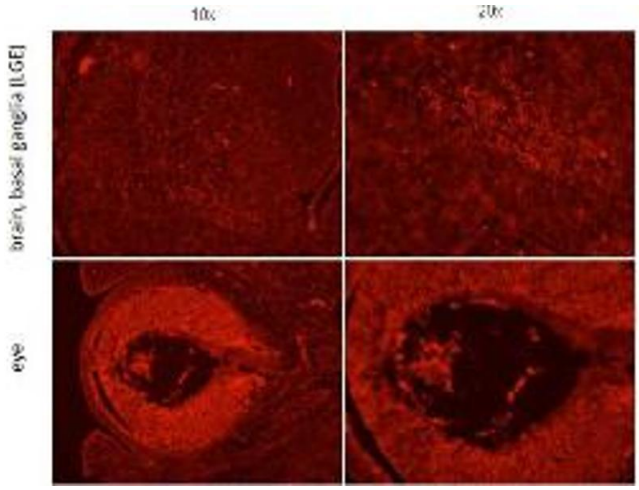
Publications

Product cited in:	Brignani, Raj, Schmidt, Düdükcü, Adolfs, De Ruiter, Rybiczka-Tesulov, Verhagen, van der Meer, Broekhoven, Moreno-Bravo, Grossouw, Dumontier, Cloutier, Chédotal, Pasterkamp: "Remotely Produced and Axon-Derived Netrin-1 Instructs GABAergic Neuron Migration and Dopaminergic Substantia Nigra Development." in: **Neuron**, Vol. 107, Issue 4, pp. 684-702.e9, (2020) (PubMed). Roy, Murphy, Deng, MacDonald, Bammler, Aldinger, Glass, Millen: "PI3K-Yap activity drives cortical gyrification and hydrocephalus in mice." in: **eLife**, Vol. 8, (2020) (PubMed). Li, Gao, Wang, Song, Xu, Xie, Zhou, Pan, Peng, Zhang, Ge, Zhong: "Generation and Characterization of Induced Pluripotent Stem Cells and Retinal Organoids From a Leber's Congenital Amaurosis Patient With Novel RPE65 Mutations." in: **Frontiers in molecular neuroscience**, Vol. 12, pp. 212, (2019) (PubMed). Xu, Liang, Song, Zhang, Lindtner, Li, Wen, Liu, Guo, Qi, Wang, Wang, Li, You, Wang, Chen, Feng, Rubenstein, Yang: "SP8 and SP9 coordinately promote D2-type medium spiny neuron production by activating Six3 expression." in: **Development (Cambridge, England)**, Vol. 145, Issue 14, (2018) (PubMed). Li, Xie, He, Zhou, Gao, Liu, Pan, Ge, Peng, Zhong: "Generation of Retinal Organoids with Mature

Publications

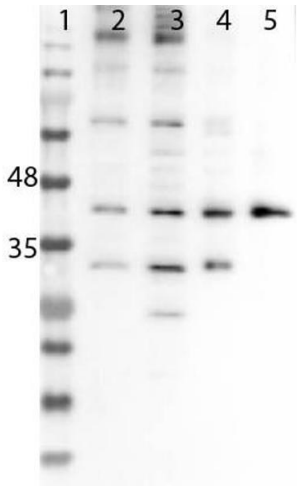
Rods and Cones from Urine-Derived Human Induced Pluripotent Stem Cells." in: **Stem cells international**, Vol. 2018, pp. 4968658, (2018) (PubMed).

Images



Immunohistochemistry

Image 1. Immunohistochemistry of Rabbit anti-Six-3 antibody Immunohistochemistry of Rabbit anti-Six-3 antibody. Tissue: retina and brain basal ganglia (LGE). Fixation: : PFA fixed and embedded in OCT/Tissue Tek for cryo. Antigen retrieval: not required. Primary antibody: SIX3 antibody at 1:500 for overnight at RT. Secondary antibody: Donkey anti Rabbit Cy3 secondary antibody. Localization: nuclear. Staining: antibody visualized as red signal.



Western Blotting

Image 2. Western Blot of Rabbit Anti-Six3 Antibody. Western Blot of Rabbit Anti-Six3 Antibody. Lane 1: Opal Pre-Stained Molecular Weight p/n MB-210-0500. Lane 2: MEF WCL p/n W10-001-371. Lane 3: 3T3 WCL p/n W10-000-358. Lane 4: Mouse Brain WCL p/n W10-000-T004. Lane 5: Mouse Liver WCL p/n W10-000-T020. Load: 10µg. Primary Antibody: Rabbit Anti-Six3 at 1µg/mL at 4°C overnight. Secondary Antibody: Gt anti-Rabbit HRP 611-103-122 at 1:40,000. Blocking: BlockOut Buffer for 30 minutes at RT.