

Datasheet for ABIN6657912
anti-SIX3 antibody (Internal Region)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	SIX3
Binding Specificity:	Internal Region
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Immunogen:	<p>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.</p> <p>Immunogen Type: Peptide</p>
Isotype:	IgG
Purification:	<p>This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with mouse Six3. Cross-reactivity with Six3 from other sources has not been determined.</p>

Target Details

Target:	SIX3
Alternative Name:	Six3 (SIX3 Products)

Target Details

Background:	<p>Synonyms: rabbit anti-Six3 antibody, Six-3, Six 3, Homeobox protein SIX3, Sine oculis homeobox homolog 3</p> <p>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.</p> <p>Gene Name: Six3</p>
Gene ID:	20473, 59939908
UniProt:	Q62233
Pathways:	Protein targeting to Nucleus

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 1:100-1:250</p> <p>Application Note: 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.</p> <p>ELISA Dilution: 1:10,000-1:15,000</p> <p>Western Blot Dilution: 1:500 - 1:2,000</p> <p>IF Microscopy Dilution: 1:200 - 1:1,000</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>0.01 % (w/v) Sodium Azide</p> <p>Stabilizer: None</p>
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

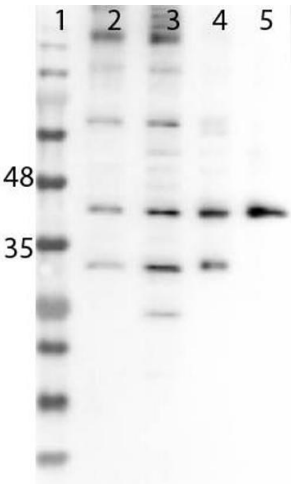
Handling

	should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Publications

Product cited in:	<p>Li, Xie, He, Zhou, Gao, Liu, Pan, Ge, Peng, Zhong: "Generation of Retinal Organoids with Mature Rods and Cones from Urine-Derived Human Induced Pluripotent Stem Cells." in: Stem cells international, Vol. 2018, pp. 4968658, (2018) (PubMed).</p> <p>Diacou, Zhao, Zheng, Cvekl, Liu: "Six3 and Six6 Are Jointly Required for the Maintenance of Multipotent Retinal Progenitors through Both Positive and Negative Regulation." in: Cell reports, Vol. 25, Issue 9, pp. 2510-2523.e4, (2018) (PubMed).</p> <p>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).</p>
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Images



Western Blotting

Image 1. 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 1:40,00 1hr RT. Blocking: BlockOut Buffer for 30 minutes at

RT.

Immunohistochemistry

Image 2. 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.

