

Datasheet for ABIN6657910

**anti-SIX3 antibody (Internal Region)**

4 Images

2 Publications

[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 50 µg  |
| Target:              | SIX3   |
| Binding Specificity: | Internal Region  |
| Reactivity:          | Mouse  |
| Host:                | Guinea Pig   |
| Clonality:           | Polyclonal   |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Fluorescence Microscopy (FM) |

## Product Details

|               |   |
|---------------|---|
| Immunogen:    | <p>Immunogen: This Protein A purified antibody was prepared from whole guinea pig 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 purified by Protein A chromatography from monospecific antiserum. 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 ( <a href="#">SIX3 Products</a> ) |

## Target Details

|             |   |
|-------------|---|
| Background: | <p>Synonyms: guinea pig anti-SIX 3 antibody, 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:    | <a href="#">Q62233</a>  |
| Pathways:   | <a href="#">Protein targeting to Nucleus</a>  |

## Application Details

|                    |  |
|--------------------|--|
| Application Notes: | <p>Immunohistochemistry Dilution: 1:250 - 1:500</p> <p>Application Note: This Protein A purified antibody has been tested for use in ELISA, immunofluorescence microscopy 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: 1:5,000 - 1:25,000</p> <p>Western Blot Dilution: 1:500 - 1:2,000</p> <p>IF Microscopy Dilution: 1:250 - 1:500</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 should be handled by trained staff only.             |

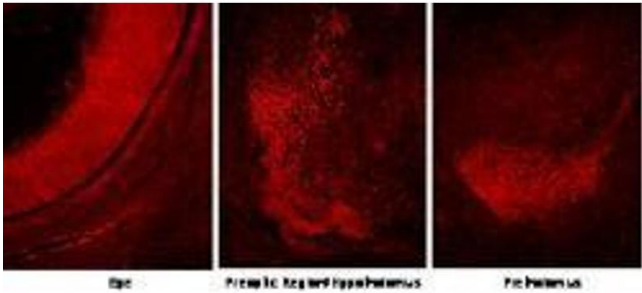
Handling

|                  |   |
|------------------|---|
| 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

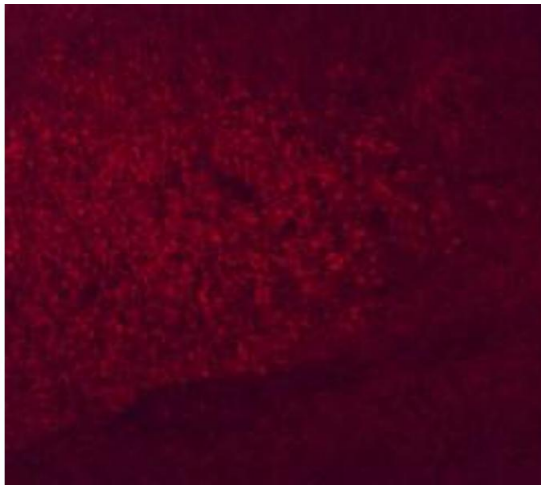
|                   |  |
|-------------------|--|
| Product cited in: | Madrigal, Moreno-Bravo, Martínez-López, Martínez, Puellas: "Mesencephalic origin of the rostral Substantia nigra pars reticulata." in: <b>Brain structure &amp; function</b> , Vol. 221, Issue 3, pp. 1403-12, (2016) ( <a href="#">PubMed</a> ).                                    |
|                   | Moldrich, Gobius, Pollak, Zhang, Ren, Brown, Mori, De Juan Romero, Britanova, Tarabykin, Richards: "Molecular regulation of the developing commissural plate." in: <b>The Journal of comparative neurology</b> , Vol. 518, Issue 18, pp. 3645-61, (2010) ( <a href="#">PubMed</a> ). |

Images



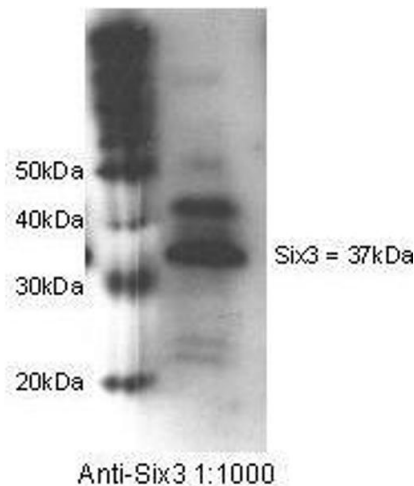
**Immunofluorescence**

**Image 1.** Immunofluorescence microscopy using Protein A purified anti-Six3 antibody shows detection of Six3 in various E14.5 mouse embryonic tissues. Tissue was fixed using 4% PFA. The primary antibody was used at a 1:200 dilution. Personal Communication, A. Lavado, St Jude Children's Research Hospital, Memphis, TN.



#### Immunofluorescence

**Image 2.** Anti-Six3 Antibody - Immunofluorescence Microscopy Immunofluorescence microscopy using Anti-Six3 antibody shows detection of Six3 in PFA-fixed embryonic mouse prethalamus. Primary antibody was used at 1:250 dilution. Personal Communication, Miriam Dillard, St. Jude Children's Research Hospital, Memphis, TN.



#### Western Blotting

**Image 3.** Anti-Six3 Antibody - Western Blot. Western blot using Protein A purified anti-Six3 antibody shows detection of Six3 in whole cell lysate. The band marked corresponds to Six3 at an approximate molecular weight of 37Kda. The primary antibody was used at a 1:1000 dilution. Personal Communication, N. Johnson, St. Jude Children's Research Hospital, Memphis, TN.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6657910.