Product Datasheet

Pax6 Antibody
NB300-750

Unit Size: 100 ug

Store at -20C. Avoid freeze-thaw cycles.

Reviews: 4  Publications: 4

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Updated 1/7/2020 v.20.1

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**Product Information**

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>100 ug</td>
</tr>
<tr>
<td>Concentration</td>
<td>1 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at -20C. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS with 1 mg/ml BSA</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>47 kDa</td>
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</tbody>
</table>

**Product Description**

- **Host**: Rabbit
- **Gene ID**: 5080
- **Gene Symbol**: PAX6
- **Species**: Human, Mouse, Rat, Fish, Monkey, Primate, Sheep
- **Reactivity Notes**: Fish reactivity reported in scientific literature (PMID: 29888788).
- **Marker**: Neural Marker
- **Specificity/Sensitivity**: Detects a ~47 kDa protein representing PAX6 (Schwann Cell Marker) from rat whole eye extracts and ovine retinal extracts.

**Product Application Details**

- **Applications**: Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Immunocytochemistry
- **Recommended Dilutions**: Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:50, Immunoprecipitation 5 ug, Immunocytochemistry 1:100
- **Application Notes**: Use in Immunohistochemistry reported in scientific literature (PMID: 22837015).

**Images**

- Western Blot: Pax6 Antibody [NB300-750] - Analysis of sheep retinal extract
- Fig. 2
  - 47 kDa
Immunocytochemistry/Immunofluorescence: Pax6 Antibody [NB300-750] - ARPE-19 monolayer on glass substrate. Fixative Methanol Blocking Goat Serum. Dilution 1:100. Incubation 1h @ RT. This image was submitted via customer Review.

Western Blot: Pax6 Antibody [NB300-750] - Analysis of rat whole eye extract

Western Blot: Pax6 Antibody [NB300-750] - Analysis of various human, mouse and non-human primate whole cell lysates.

Western Blot: Pax6 Antibody [NB300-750] - Analysis of extracts from HeLa, U251 and mouse brain using PAX6 antibody (NB300-750, 1:100).
Western Blot: Pax6 Antibody [NB300-750] - Analysis of Pax6 in skate (Leucoraja erinacea) brain lysate using anti-Pax6 antibody. Image from verified customer review.

Immunocytochemistry/Immunofluorescence: Pax6 Antibody [NB300-750] - Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with a PAX6 polyclonal antibody at a dilution of 1:400 for 30 minutes at room temperature. F-Actin (red) was stained with DyLight 554 Phalloidin were stained with Hoechst 33342 dye.

Immunoprecipitation: Pax6 Antibody [NB300-750] - Analysis of PAX6 was performed on 293T cells. Antigen: antibody complexes were formed by incubating 500ug whole cell lysate with 5ug of PAX6 polyclonal antibody overnight on a rocking platform at 4C. The immune complexes were captured on 50ul Protein A/G Plus Agarose, washed extensively, and eluted with 5X Lane Marker Reducing Sample Buffer. Samples were resolved on a 4-20% Tris-HCl polyacrylamide gel, transferred to a PVDF membrane, and blocked with 5% BSA/TBS-0.1%Tween for at least 1 hour. The membrane was probed with a PAX6 monoclonal antibody at a dilution of 1:1000 overnight rotating at 4C, washed in TBST, and probed with Clean-Blot IP Detection Reagent at a dilution of 1:1000 for at least one hour.

Publications


Suriano CM, Bodznick D. Evidence for generative homology of cerebellum and cerebellum-like structures in an elasmobranch fish based on Pax6, Cbln1 and Grid2 expression J. Comp. Neurol. Jun 11 2018 12:00AM [PMID: 29888788] (Fish)


Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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