SIX2 Polyclonal antibody

Catalog Number: 11562-1-AP

Basic Information

- **Catalog Number:** 11562-1-AP
- **Size:** 150μL, Concentration: 520 μg/ml by Bradford method using BSA as the standard
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG2124
- **GenBank Accession Number:** BCO26033
- **GeneID (NCBI):** 10736
- **Full Name:** SIX homeobox 2
- **Calculated MW:** 291 aa, 32 kDa
- **Observed MW:** 32-37 kDa
- **Purification Method:** Antigen affinity purification
- **Recommended Dilutions:**
  - **WB:** 1:500-1:3000
  - **IP:** 0.5-4.0 μg for IP and 1:500-1:1000 for WB

Applications

- **Tested Applications:** IP, WB, ELISA
- **Cited Applications:** ChIP, IP, pull-down, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** American alligator, dog, human, mouse, pig, rat, swine

Background Information

The SIX proteins (sine oculis) are a family of homeodomain transcription factors that share a conserved DNA binding domain. Six members (Six1-Six6) of the Six gene family have been identified in mice and humans. SIX2, containing one homeobox DNA-binding domain, is highly expressed in fetal tissues but expression is limited in adult tissues. SIX2 may be involved in limb tendon and ligament development [PMID: 21420949]. It has been previously shown that SIX2 is expressed in developing mesenchymal tissue including head and urogenital system at the time of overt midfacial and renal differentiation [PMID: 22282599]. This antibody is a rabbit polyclonal antibody raised against full length SIX2 of human origin.

Notable Publications

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<th>Author</th>
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<tr>
<td>Rawah Faraj</td>
<td>31544449</td>
<td>Eur J Histochem</td>
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<td>David A D Munro</td>
<td>28929539</td>
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<td>Valentina Benedetti</td>
<td>31534055</td>
<td>JCI Insight</td>
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Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 11562-1-AP (SIX2 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.


IF result from Fogelgren B, PMID:18570229, "Misexpression of Six2 is associated with heritable frontonasal dysplasia and renal hypoplasia in 3H1 Br mice."