SMOX Polyclonal ANTIBODY

Catalog Number: 15052-1-AP

Basic Information

- **Catalog Number:** 15052-1-AP
- **Size:** 71 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG7035

GenBank Accession Number: BC000669
GeneID (NCBI): 54498
Full Name: spermine oxidase
Calculated MW: 62 kDa
Observed MW: 62 kDa

Recommended Dilutions:
- WB: 1:500-1:1000
- IHC: 1:100-1:400

Applications

- **Tested Applications:** IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse, rat

Background Information

SMOX (spermine oxidase) is also named as SMO, PAO-1 and PAOh1. It belongs to the class of polyamine oxidases (PAOs). The flavoprotein SMO, which specifically oxidizes Spm, is one of the key regulatory enzymes involved in polyamine homeostasis in animal cells (PMID: 14764092). It has 6 isoforms produced by alternative splicing with the MW of 61 kDa, 56 kDa, 21 kDa, 60 kDa, 43 kDa and 65 kDa, respectively.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kale S Bongers</td>
<td>25400894</td>
<td>Am J Physiol Endocrinol Metab</td>
<td>WB</td>
</tr>
<tr>
<td>Takeshi Uemura</td>
<td>26069326</td>
<td>Sci Rep</td>
<td>WB, IF</td>
</tr>
<tr>
<td>C Patel</td>
<td>27239099</td>
<td>Biochim Biophys Acta</td>
<td>WB</td>
</tr>
</tbody>
</table>

Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**
PC-13 cells were subjected to SDS PAGE followed by western blot with 15052-1-AP(SMOX antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.

Transfected HEK-293 cells were subjected to SDS PAGE followed by western blot with 15052-1-AP(SMOX Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human gliomas tissue slide using 15052-1-AP(SMOX Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).

Immunohistochemistry of paraffin-embedded human gliomas tissue slide using 15052-1-AP(SMOX Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Tris-EDTA buffer (pH 9).