FOXO4 Polyclonal ANTIBODY

Catalog Number: 21535-1-AP

Basic Information

- **Catalog Number:** 21535-1-AP
- **GenBank Accession Number:** BC108761
- **GeneID (NCBI):** 4303
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG16169
- **GenBank Accession Number:** BC106761
- **GeneID (NCBI):** 4303
- **Size:** 59 μg/150 μl
- **Full Name:** forkhead box O4
- **Calculated MW:** 50 kDa
- **Observed MW:** 54 kDa

Applications

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

Background Information

FOXO4, also named as AFX, AF46 and MLLT7, is a transcription factor which involved in the regulation of the insulin signaling pathway. It binds to insulin-response elements (IREs) and can activate transcription of IGFBP1. FOXO down-regulates expression of HIF1A and suppresses hypoxia-induced transcriptional activation of HIF1A-modulated genes. It is involved in negative regulation of the cell cycle. A chromosomal aberration involving FOXO4 is found in acute leukemias. The antibody can recognize isoform 1 and isoform Zeta of FOXO4.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shu Yang</td>
<td>26076302</td>
<td>J Agric Food Chem</td>
<td>WB</td>
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<tr>
<td>Gaelle Auguste</td>
<td>26317431</td>
<td>Circ Res</td>
<td>WB</td>
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<tr>
<td>Yang Yang</td>
<td>27562453</td>
<td>Int J Biochem Cell Biol</td>
<td>WB</td>
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Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20ºC storage**
mouse heart tissue were subjected to SDS PAGE followed by western blot with 21535-1-AP FOXO4 antibody at dilution of 1:500 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human kidney using 21535-1-AP FOXO4 antibody at dilution of 1:100 (under 10x lens)

Immunohistochemical of paraffin-embedded human kidney using 21535-1-AP FOXO4 antibody at dilution of 1:100 (under 40x lens)