**Product datasheet**

**Anti-ROR1 antibody ab135669**

7 References  6 Images

**Overview**

**Product name**  
Anti-ROR1 antibody

**Description**  
Rabbit polyclonal to ROR1

**Host species**  
Rabbit

**Tested applications**  
Suitable for: WB, IHC-P, Flow Cyt

**Species reactivity**  
Reacts with: Human

**Predicted to work with:** Mouse

**Immunogen**  
Recombinant fragment corresponding to Human ROR1 aa 112-399.

Sequence:
```
YGSRLRIRNLDTTCTGTYFQCVCATNGKEVVSSTGVLFVK
FGPPPTASPGYS
DEYEEDGCQPYRGACARFIIGNRTVYMESLHMQGEIE
NQITAAFTMIGT
SSHLSDKCSQFAIPSLCHYAFPYCDETTSSVKPRDL
RDECEILEVLCO
TEYIFARSNPMILMRKLPNCEDLPQPESPEAANCIRIGI
PMADPINKNH
KCYNSTGVDFYRTSNTKSGRCQPWSQYPHTHTF
TALRFPELNGHSY
CRNPQKKEAPWCFTLDENFKSDLCDIPACDSKDSK
EK
```

Database link: Q01973-1

**Positive control**  
WB: PANC-1 whole cell lysate. HEK-293 cell lysate, transiently transfected with the ROR1 gene. IHC-P: Human lung carcinoma, heart and kidney tissue. Flow Cytometry: NCI-H460 cells.

**Properties**

**Form**  
Liquid

**Storage instructions**  

**Storage buffer**  
Preservative: 0.09% Sodium azide
Constituent: PBS

Purity
Immunogen affinity purified

Purification notes
ab135669 is purified through a protein A column, followed by peptide affinity purification.

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab135669 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/50 - 1/100. Predicted molecular weight: 104 kDa.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/10 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>1/10 - 1/50. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
</tbody>
</table>

Target

Function
Tyrosine-protein kinase receptor whose role is not yet clear.

Tissue specificity
Expressed strongly in human heart, lung and kidney, but weakly in the CNS. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm.

Sequence similarities
Belongs to the protein kinase superfamily. Tyr protein kinase family. ROR subfamily.
Contains 1 FZ (frizzled) domain.
Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
Contains 1 kringle domain.
Contains 1 protein kinase domain.

Developmental stage
Expressed at high levels during early embryonic development. The expression levels drop strongly around day 16 and there are only very low levels in adult tissues.

Cellular localization
Membrane.

Images
ab135669 staining ROR1 in human kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).

Tissue was fixed with formaldehyde and blocked with 3% BSA for 30 minutes at room temperature; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. An undiluted biotin-conjugated Goat anti-rabbit polyclonal was used as the secondary antibody.

Flow cytometric analysis of NCI-H460 cells labeling ROR1 with ab135669 at 1/10 dilution (bottom histogram) or negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.
Anti-ROR1 antibody (ab135669) at 1/2000 dilution + PANC-1 (Human pancreatic epithelial carcinoma cell line) whole cell lysate at 20 µg

**Secondary**
Goat Anti-Rabbit IgG, (H+L)-HRP at 1/10000 dilution

**Predicted band size:** 104 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

**All lanes:** Anti-ROR1 antibody (ab135669) at 1/50 dilution

**Lane 1:** Non-transfected HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate

**Lane 2:** ROR1 gene transfected HEK-293 (Human epithelial cell line from embryonic kidney) cell lysate

Lysates/proteins at 2 µg per lane.

**Predicted band size:** 104 kDa

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung carcinoma tissue labelling ROR1 with ab135669 at 1/50 dilution followed by peroxidase-conjugated secondary antibody and DAB staining.
ab135669 staining ROR1 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).

Tissue was fixed with formaldehyde and blocked with 3% serum for 30 minutes at room temperature; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. An undiluted biotin-conjugated Goat anti-rabbit polyclonal was used as the secondary antibody.

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