**Product datasheet**

**Anti-ROR1 antibody ab135669**

### Overview

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Anti-ROR1 antibody</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to ROR1</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: WB, IHC-P, Flow Cyt</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td></td>
<td>Predicted to work with: Mouse</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Recombinant fragment corresponding to Human ROR1 aa 112-399. Sequence:</td>
</tr>
<tr>
<td></td>
<td>YGSRLRIRNLDTDTGYFQCVA$^7$GKEVVSSTGVFLVKFGPPP$^7$ASP$^7$GYSDYE$^7$E$^7$GFCQPYRGIACAR$^7$IGNRTVYMELHM$^7$QGEIE$^7$NQITA$^7$AAFTM$^7$GT</td>
</tr>
<tr>
<td></td>
<td>NQITA$^7$AAFTM$^7$GTSSHLSDKCSQFAI$^7$PSLCHYA$^7$FYPCDE$^7$TSSVPKPR$^7$DLC</td>
</tr>
<tr>
<td></td>
<td>R$^7$DECEIL$^7$ENVL$^7$QTEYI$^7$FAR$^7$SNPMILML$^7$KL$^7$PNCE$^7$DLPQ$^7$PESPEA$^7$ANCIRIGI$^7$PMADP$^7$INKNH</td>
</tr>
<tr>
<td></td>
<td>KCYNSTGDYRGTVSTK$^7$SGRQCQPWNSQYPHTHTF$^7$TALRF$^7$PEL$^7$NGGSY$^7$CRNP$^7$GQKEAP$^7$WCFTLDENFKSDLC$^7$IPACDSKDSK</td>
</tr>
<tr>
<td></td>
<td>EK</td>
</tr>
<tr>
<td><strong>Database link</strong></td>
<td>Q01973-1</td>
</tr>
</tbody>
</table>

**Positive control**

- WB: PANC-1 whole cell lysate. HEK-293 cell lysate, transiently transfected with the ROR1 gene.

### Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.</td>
</tr>
<tr>
<td><strong>Storage buffer</strong></td>
<td>Preservative: 0.09% Sodium azide</td>
</tr>
</tbody>
</table>
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 - formalin-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.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support
• Replacement or refund for products not performing as stated on the datasheet
• Valid for 12 months from date of delivery
• Response to your inquiry within 24 hours

• We provide support in Chinese, English, French, German, Japanese and Spanish
• Extensive multi-media technical resources to help you
• We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors