Product datasheet

Anti-PAX7 antibody ab34360

Overview

Product name  Anti-PAX7 antibody
Description  Rabbit polyclonal to PAX7
Host species  Rabbit
Tested applications  Suitable for: WB, ICC/IF, IHC-Fr
Species reactivity  Reacts with: Human
Immunogen  Synthetic peptide conjugated to KLH derived from within residues 500 to the C-terminus of Human PAX7. Read Abcam's proprietary immunogen policy (Peptide available as ab37576.)
Positive control  ab34360 was positive in the following Whole Cell Lysates: TE671 (Human Rhabdomyosarcoma cell line).

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer  Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4
Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab34360 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>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 57 kDa).</td>
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Function

Probable transcription factor. May have a role in myogenesis.

Involvement in disease

Defects in PAX7 are a cause of rhabdomyosarcoma type 2 (RMS2) [MIM:268220]. It is a form of rhabdomyosarcoma, a highly malignant tumor of striated muscle derived from primitive mesenchimal cells and exhibiting differentiation along rhabdomyoblastic lines. Rhabdomyosarcoma is one of the most frequently occurring soft tissue sarcomas and the most common in children. It occurs in four forms: alveolar, pleomorphic, embryonal and botryoidal rhabdomyosarcomas. Note=A chromosomal aberration involving PAX7 is found in rhabdomyosarcoma. Translocation t(1;13)(p36;q14) with FOXO1. The resulting protein is a transcriptional activator.

Sequence similarities

Belongs to the paired homeobox family.
Contains 1 homeobox DNA-binding domain.
Contains 1 paired domain.

Cellular localization

Nucleus.

Target

<table>
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<tbody>
<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration. PubMed: 20723755</td>
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<tr>
<td>IHC-Fr</td>
<td>Use at an assay dependent concentration. PubMed: 22253929</td>
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Images

Western blot - Anti-PAX7 antibody (ab34360)

All lanes: Anti-PAX7 antibody (ab34360) at 1 µg/ml

Lane 1: Human Uterus Tissue Lysate (negative control)
Lane 2: TE 671 (Human Rhabdomyosarcoma) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Blocking peptides at 10 µg per lane.

Secondary

All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 57 kDa
Observed band size: 65 kDa

why is the actual band size different from the predicted?
Additional bands at: 37 kDa, 90 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 2 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab34360 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution ab133406

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