**Product datasheet**

**Anti-PAX7 antibody ab34360**

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**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>
</tr>
</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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</table>
**Target**

**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.

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**Images**

**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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