Overview

Product name: Anti-c-Myb (phospho S11) antibody [EP769Y]
Description: Rabbit monoclonal [EP769Y] to c-Myb (phospho S11)
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P, IP, Dot blot
Unsuitable for: Flow Cyt
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control:

General notes: This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production
For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form: Liquid
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
Purity: Protein A purified

abcam
Clonality: Monoclonal
Clone number: EP769Y
Isotype: IgG

Applications

The Abpromise guarantee: Our Abpromise guarantee covers the use of ab45150 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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<tbody>
<tr>
<td>WB</td>
<td>1/1000 - 1/5000. Predicted molecular weight: 72 kDa.</td>
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<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<tr>
<td>IP</td>
<td>1/50.</td>
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<tr>
<td>Dot blot</td>
<td>1/1000.</td>
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</table>

Application notes: Is unsuitable for Flow Cyt.

Target

Function: Transcriptional activator; DNA-binding protein that specifically recognize the sequence 5'-YAAC[GT]G-3'. Plays an important role in the control of proliferation and differentiation of hematopoietic progenitor cells.

Sequence similarities: Contains 3 HTH myb-type DNA-binding domains.

Domain: Comprised of 3 domains; an N-terminal DNA-binding domain, a centrally located transcriptional activation domain and a C-terminal domain involved in transcriptional repression.

Post-translational modifications: Ubiquitinated; mediated by SIAH1 and leading to its subsequent proteasomal degradation. Phosphorylated by NLK on multiple sites, which induces proteasomal degradation.

Cellular localization: Nucleus.

Images
Western blot - Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150)

All lanes: Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150) at 1/2000 dilution (purified)

Lane 1: Molt-4 (Human lymphoblastic leukemia cell line) cell lysate with c-Myb (phospho S11) peptide
Lane 2: Molt-4 cell lysate with c-Myb (phospho S12) peptide
Lane 3: Molt-4 cell lysate with c-Myb (phospho S11/12) peptide
Lane 4: Molt-4 cell lysate with c-Myb unmodified peptide

Lysates/proteins at 10 µg per lane.

Secondary
All lanes: HRP goat anti-rabbit IgG (H+L) at 1/2000 dilution

Predicted band size: 72 kDa
Observed band size: 77 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Immunohistochemical analysis of paraffin-embedded human vertical carcinoma tissue staining c-Myb with unpurified ab45150.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Dot blot analysis of c-Myb (phospho S11/12) peptide (Lane 1) and c-Myb unmodified peptide (Lane 2) labeling c-Myb (phospho S11) with purified ab45150 at a dilution of 1/1000. **ab97051** (Peroxidase conjugated goat anti-rabbit IgG (H+L)) was used as the secondary antibody at a dilution of 1/2500.

**Blocking and dilution buffer:** 5% NFDM/TBST.

**Exposure time:** 3 minutes.

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**Western blot - Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150)**

All lanes: Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150) at 1/2000 dilution (purified)

Lane 1: HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate with c-Myc (phospho S11) peptide

Lane 2: HeLa cell lysate with c-Myc (phospho S12) peptide

Lane 3: HeLa cell lysate with c-Myc (phospho S11/12) peptide

Lane 4: HeLa cell lysate with c-Myc unmodified peptide

Lysates/proteins at 10 µg per lane.

**Secondary**

All lanes: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (HRP goat anti-rabbit IgG (H+L))

**Predicted band size:** 72 kDa

**Observed band size:** 75,77 kDa

**Blocking/Dilution buffer:** 5% NFDM/TBST.
**Western blot - Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150)**

**All lanes**: Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150) at 1/5000 dilution (purified)

**Lane 1**: Untreated Ramos (Human Burkitt's lymphoma cell line) cell lysate

**Lane 2**: Ramos cell lysate, membrane treated with alkaline phosphatase

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: HRP goat anti-rabbit IgG (H+L) at 1/2000 dilution

**Predicted band size**: 72 kDa

**Observed band size**: 75,77 kDa

**Exposure time**: 3 minutes

**Blocking/Dilution buffer**: 5% NFDM/ TBST.

**Western blot - Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150)**

**All lanes**: Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150) at 1/5000 dilution (purified)

**Lane 1**: Untreated HL-60 (Human promyelocytic leukemia cell line) cell lysate

**Lane 2**: HL-60 cell lysate, membrane treated with alkaline phosphatase

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: HRP goat anti-rabbit IgG (H+L) at 1/2000 dilution

**Predicted band size**: 72 kDa

**Observed band size**: 77 kDa
Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes: Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150) at 1/2000 dilution (purified)

Lane 1: HeLa cell lysate, the membrane treated with lambda phosphatase

Lane 2: Untreated HeLa (Human epithelial cell line from cervix adenocarcinoma) cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 72 kDa
Observed band size: 75,77 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Anti-c-Myb (phospho S11) antibody [EP769Y] (ab45150) at 1/10000 dilution (unpurified) + Ramos (Human Burkitt's lymphoma cell line) membrane lysate

Predicted band size: 72 kDa
Observed band size: 72,75 kDa
c-Myb was immunoprecipitated from 0.35 mg MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate 10 µg with ab45150 at 1/120 dilution (2µg). VeriBlot for IP Detection Reagent (HRP)(ab131366) was used at 1/5000 dilution.

**Lane 1:** MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate 10 µg

**Lane 2:** ab45150 IP in MOLT-4 whole cell lysate

**Lane 3:** Rabbit monoclonal IgG (ab172730) instead of ab45150 in MOLT-4 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Fresh lysate should be used to minimize protein degradation. Multi-bands should be c-myb isoforms based on immunogen design and Uniprot database.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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