Anti-TAF7 antibody ab57494

Overview

Product name
Anti-TAF7 antibody

Description
Mouse monoclonal to TAF7

Host species
Mouse

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

Species reactivity
Reacts with: Human

Immunogen
Recombinant fragment: FMNHGITLP LKNVRKRFRR KTAKKKIES PDVEKEVKRL
LSTDASEAVST RWEIAEDET KEAENQGLDI SSPGMSGHRQ GHDSLEHDEL REIFN,
corresponding to amino acids 130-224 of Human TAF7

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer
Preservative: None
PBS, pH 7.2

Purity
Ascites

Purification notes
Purified from ascites.

Clonality
Monoclonal

Isotype
IgG2a

Light chain type
kappa

Applications

Our Abpromise guarantee covers the use of ab57494 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 - 5 µg/ml. Predicted molecular weight: 40 kDa.</td>
</tr>
</tbody>
</table>
Function as a component of the DNA-binding general transcription factor complex TFIIID, a multimeric protein complex that plays a central role in mediating promoter responses to various activators and repressors. Present in both of the previously described TFIIID species which either lack or contain TAFII30 (TFIID alpha and TFIID beta respectively).

Tissue specificity
Ubiquitous.

Sequence similarities
Belongs to the TAF7 family.

Domain
The [KR]-[STA]-K motif is specifically recognized by the SETD7 methyltransferase, which methylates Lys-5 in vitro.

Cellular localization
Nucleus.

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<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 1 µg/ml.</td>
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<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use 1 µg for 10⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.</td>
</tr>
</tbody>
</table>

Target

Function
Functions as a component of the DNA-binding general transcription factor complex TFIIID, a multimeric protein complex that plays a central role in mediating promoter responses to various activators and repressors. Present in both of the previously described TFIIID species which either lack or contain TAFII30 (TFIID alpha and TFIID beta respectively).

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Images

Western blot - Anti-TAF7 antibody (ab57494)

TAF7 antibody (ab57494) at 1µg/lane + MCF-7 cell lysate at 25µg/lane.
Overlay histogram showing HeLa cells stained with ab57494 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab57494, 1μg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (ab91361, 1μg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

TAF7 antibody (ab57494) used in immunohistochemistry at 1µg/ml on formalin fixed and paraffin embedded human lymph node.

Lane 2 : Anti-TAF7 antibody (ab57494) at 1/1250 dilution
Lane 3 : Anti-TAF7 antibody (ab57494) at 1/2500 dilution
Lane 4 : Anti-TAF7 antibody (ab57494) at 1/5000 dilution
Lane 5 : Anti-TAF7 antibody (ab57494) at 1/10000 dilution

All lanes : whole cell lysate prepared from SW780 bladder cancer cells

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : Goat anti-mouse IgG conjugated to HRP

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 40 kDa
Observed band size: 40 kDa
Additional bands at: 90 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 10 minutes

Lane 1: All Blue Biorad.
Gel run under denaturing conditions with a 4-12% gradient.
Blocking step performed using 5% milk for one hour at room temperature.
Primary antibody incubated for 16 hours.

ab57494 staining TAF7 in human bladder cancer tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with formaldehyde and a heat mediated antigen retrieval step was performed using TEG. Samples were then blocked with 1% serum for 1 hour at room temperature followed by incubation with the primary antibody at a 1/3500 dilution for 1 hour. An undiluted HRP-conjugated goat anti-mouse IgG polyclonal was used as secondary antibody.

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