**Product name**
Anti-TGF beta 2 antibody

**Description**
Mouse monoclonal to TGF beta 2

**Host species**
Mouse

**Specificity**
Ab36495 recognizes TGF beta 2. It does not recognize TGF beta 1 or TGF beta 3.

**Tested applications**
Suitable for: ICC/IF, IHC-P, WB, IHC-Fr
Unsuitable for: Neut

**Species reactivity**
Reacts with: Mouse, Cow, Human

**Immunogen**
Synthetic peptide corresponding to Human TGF beta 2 aa 352-377. Immunogen sequence is identical to amino acids 50-75 of mature human TGF beta 2
Sequence:
YLWSSDTQHSRVLSLYNTINPEASAS

Database link: P61812

**Epitope**
Recognizes an epitope within amino acids 50-75 of the mature human TGF beta 2 protein.

**General notes**
This antibody does not inhibit the binding of TGF beta 2 to the TGF beta 2 Type 2 Receptor in mink lung epithelial cells.

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>Constituent: Water</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein G purified</td>
</tr>
<tr>
<td>Purification notes</td>
<td>Purified from conditioned medium by Protein G agarose chromatography</td>
</tr>
<tr>
<td>Primary antibody notes</td>
<td>This antibody does not inhibit the binding of TGF beta 2 to the TGF beta 2 Type 2 Receptor in mink lung epithelial cells.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
</tbody>
</table>
Myeloma: Sp2/0
Isotype: IgG1

Applications

Our Abpromise guarantee covers the use of ab36495 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>ICC/IF</td>
<td></td>
<td>1/50.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/10 - 1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>1/1000. Predicted molecular weight: 50 kDa.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td></td>
<td>1/10 - 1/50.</td>
</tr>
</tbody>
</table>

Application notes

Is unsuitable for Neut.

Target

Function
TGF-beta 2 has suppressive effects on interleukin-2 dependent T-cell growth.

Involvement in disease
A chromosomal aberration involving TGFB2 is found in a family with Peters anomaly. Translocation t(1;7)(q41;p21) with HDAC9.
Loeys-Dietz syndrome 4
Defects in TGFB2 may be a cause of non-syndromic aortic disease (NSAD). NSAD is a frequently asymptomatic but potentially lethal disease characterized by thoracic aortic aneurysms and dissections without additional syndromic features.

Sequence similarities
Belongs to the TGF-beta family.

Post-translational modifications
The precursor is cleaved into mature TGF-beta-2 and LAP, which remains non-covalently linked to mature TGF-beta-2 rendering it inactive.

Cellular localization
Secreted.

Images
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TGF beta 2 antibody (ab36495)

This image is courtesy of an Abreview submitted by Mr. Daniel Bird

ab36495 at 1/1000 staining mouse kidney tissue sections by IHC-P. The tissue was paraformaldehyde fixed and a heat mediated antigen retrieval step was performed in citrate buffer. The tissue was then blocked and incubated with the antibody for 1 hour. A biotinylated rabbit anti-mouse antibody was used as the secondary.

Immunocytochemistry/ Immunofluorescence - Anti-TGF beta 2 antibody (ab36495)

This image is courtesy of an Abreview submitted by Ms. Akamatsu Takako

ab36495 staining GF beta 2 in Human MCF7 cells by Immunocytochemistry/Immunofluorescence.

Cells were fixed with formaldehyde, permeabilized with 0.1% Tween/TBS and blocked with 10% BSA for 30 minutes at room temperature. Samples were incubated with primary antibody (1/50 in 10% BSA/TBST) for 1 hour. An AlexaFluor®488-conjugated goat anti-mouse monoclonal IgG (1/250) was used as the secondary antibody.

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