Product datasheet

Anti-iASPP antibody ab34898

Overview

Product name: Anti-iASPP antibody
Description: Rabbit polyclonal to iASPP
Host species: Rabbit
Specificity: Expect reactivity against both isoform 1 and isoform 2.
Tested applications: Suitable for: IHC-P, WB, ELISA, IP, ICC/IF
Species reactivity: Reacts with: Rat, Human, Monkey
Predicted to work with: Mouse, Cow
Immunogen: Synthetic peptide:
R EGESVTVLRR DGPEETD,
, corresponding to amino acids 780-797 of Human iASPP (Isoform 1).
Positive control: MCF7 whole cell lysate

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer: pH: 7.20
Preservative: 0.01% Sodium azide
Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab34898 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Relevance

ASPP proteins (ASPP1, ASPP2 and iASPP) represent a new family of p53 binding proteins. ASPP1 and ASPP2 bind and enhance p53-mediated apoptosis. In contrast, the third member, iASPP, functionally inactivates p53. iASPP (also called protein phosphatase 1 regulatory (inhibitor) subunit 13 like protein, Inhibitor of ASPP protein, Protein iASPP, PPP1R13B-like protein and NFκB-interacting protein 1) plays a central role in regulation of apoptosis and transcription via its interaction with NF-kappa-B and p53/TP53 proteins. iASPP blocks transcription of HIV-1 virus by inhibiting the action of both NF-kappa-B and SP1. This protein also inhibits p53/TP53 function, possibly by preventing the association between p53/TP53 and ASPP1 or ASPP2, and therefore suppressing the subsequent activation of apoptosis. iASPP is predominantly a cytoplasmic protein (isoform 1) but can also be found in the nucleus (isoform 2). iASPP is highly expressed in heart, placenta and prostate and is weakly expressed in brain, liver, skeletal muscle, testis and peripheral blood leukocyte. The N-terminal region of isoform 1 is required for cytoplasmic localization. Defects in iASPP may be a cause of certain breast cancers and the protein is overexpressed in many patients suffering from breast carcinomas and expressing a wild-type p53/TP53 protein.

Cellular localization

Nuclear

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>1/1000 - 1/5000. Detects a band of approximately 102 kDa (predicted molecular weight: 90 kDa).</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>1/40000 - 1/160000.</td>
</tr>
<tr>
<td>IP</td>
<td>★★★★★</td>
<td>Use at 4 µg/mg of lysate.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★☆</td>
<td>1/100.</td>
</tr>
</tbody>
</table>

Target

Relevance

ASPP proteins (ASPP1, ASPP2 and iASPP) represent a new family of p53 binding proteins. ASPP1 and ASPP2 bind and enhance p53-mediated apoptosis. In contrast, the third member, iASPP, functionally inactivates p53. iASPP (also called protein phosphatase 1 regulatory (inhibitor) subunit 13 like protein, Inhibitor of ASPP protein, Protein iASPP, PPP1R13B-like protein and NFκB-interacting protein 1) plays a central role in regulation of apoptosis and transcription via its interaction with NF-kappa-B and p53/TP53 proteins. iASPP blocks transcription of HIV-1 virus by inhibiting the action of both NF-kappa-B and SP1. This protein also inhibits p53/TP53 function, possibly by preventing the association between p53/TP53 and ASPP1 or ASPP2, and therefore suppressing the subsequent activation of apoptosis. iASPP is predominantly a cytoplasmic protein (isoform 1) but can also be found in the nucleus (isoform 2). iASPP is highly expressed in heart, placenta and prostate and is weakly expressed in brain, liver, skeletal muscle, testis and peripheral blood leukocyte. The N-terminal region of isoform 1 is required for cytoplasmic localization. Defects in iASPP may be a cause of certain breast cancers and the protein is overexpressed in many patients suffering from breast carcinomas and expressing a wild-type p53/TP53 protein.

Images
Immunoprecipitation analysis of Human HeLa whole cell lysates. The cells were immunoprecipitated untreated with a Protein A matrix diluted at 4 µg/mg lysate incubated for 2 hours at 4°C in RIPA buffer.

**All lanes**: Anti-iASPP antibody (ab34898) at 1/1 dilution

**All lanes**: Human HeLa S3 whole cell lysates

Lysates/proteins at 500 µg per lane.

**Additional bands at**: 100 kDa (possible post-translational modification)

Anti-iASPP antibody (ab34898) at 1/1500 dilution (at 4°C, o/n) + 35ug of MCF7 whole cell lysate

**Secondary**
IRDye™800 conjugated anti-Rabbit IgG diluted 1:10000, for 45 min at RT

**Predicted band size**: 90 kDa

**Observed band size**: 102 kDa

*why is the actual band size different from the predicted?*

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-iASPP antibody (ab34898)

IHC image of ab34898 staining in human breast carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab34898, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.
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