Product datasheet

Anti-EEF2 (phospho T56) antibody ab53114

Overview

Product name  Anti-EEF2 (phospho T56) antibody
Description  Rabbit polyclonal to EEF2 (phospho T56)
Host species  Rabbit
Specificity  ab53114 detects endogenous levels of EEF2 only when phosphorylated at threonine 56.
Tested applications  Suitable for: ICC/IF, WB, ELISA, IHC-P
Species reactivity  Reacts with: Mouse, Rat, Human
Immunogen  Synthetic peptide corresponding to Human EEF2.
Positive control  Human breast carcinoma tissue and extracts from NIH 3T3 cells treated with serum.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer  Preservative: 0.02% Sodium Azide
Constituents: 50% Glycerol, PBS (without Mg$^{2+}$ and Ca$^{2+}$), 150mM Sodium chloride, pH 7.4
Purity  Immunogen affinity purified
Purification notes  ab53114 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab53114 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>Use at an assay dependent concentration. PubMed: 24130777</td>
</tr>
</tbody>
</table>
Function
Catalyzes the GTP-dependent ribosomal translocation step during translation elongation. During this step, the ribosome changes from the pre-translocational (PRE) to the post-translocational (POST) state as the newly formed A-site-bound peptidyl-tRNA and P-site-bound deacylated tRNA move to the P and E sites, respectively. Catalyzes the coordinated movement of the two tRNA molecules, the mRNA and conformational changes in the ribosome.

Sequence similarities
Belongs to the GTP-binding elongation factor family. EF-G/EF-2 subfamily.

Post-translational modifications
Phosphorylation by EF-2 kinase completely inactivates EF-2. Diphthamide is 2-[3-carboxyamido-3-(trimethyl-ammonio)propyl]histidine. Diphthamide can be ADP-ribosylated by diphtheria toxin and by Pseudomonas exotoxin A, thus arresting protein synthesis. ISGylated.

Cellular localization
Cytoplasm.

Images

**All lanes**: Anti-EEF2 (phospho T56) antibody (ab53114) at 1/300 dilution

**Lane 1**: Extract from NIH 3T3 cells treated with serum (10%, 30mins) with Immunising peptide

**Lane 2**: Extract from NIH 3T3 cells treated with serum (10%, 30mins)

**Predicted band size**: 95 kDa

**Observed band size**: 95 kDa

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>1/300 - 1/1000. Detects a band of approximately 95 kDa (predicted molecular weight: 95 kDa).</td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td>1/10000.</td>
<td></td>
</tr>
<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
</tr>
</tbody>
</table>
Immunohistochemistry (Paraffin-embedded sections)
- EEF2 (phospho T56) antibody (ab53114)

ab53114 at 1/50 dilution staining EEF2 in human breast carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence and presence of the immunising peptide.

ab53114 at 1/50 dilution staining EEF2 in human breast carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence and presence of the immunising peptide.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors