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: pH: 7.40
Preservative: 0.02% Sodium azide
 Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS
 Without Mg+2 and Ca+2

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.
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

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration. PubMed: 24130777</td>
<td></td>
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<tr>
<td>WB</td>
<td>1/300 - 1/1000. Detects a band of approximately 95 kDa (predicted molecular weight: 95 kDa).</td>
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<tr>
<td>ELISA</td>
<td>1/10000.</td>
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<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration.</td>
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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
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.

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