Recombinant Human 14-3-3 beta protein (Tagged) ab219887

### Specifications

Our **Abpromise guarantee** covers the use of **ab219887** 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>Applications</th>
<th>SDS-PAGE</th>
</tr>
</thead>
</table>

### Description

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Recombinant Human 14-3-3 beta protein (Tagged)</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>&gt; 95 % SDS-PAGE</td>
</tr>
<tr>
<td><strong>Endotoxin level</strong></td>
<td>&lt; 1.000 Eu/µg</td>
</tr>
<tr>
<td><strong>Expression system</strong></td>
<td>Escherichia coli</td>
</tr>
<tr>
<td><strong>Accession</strong></td>
<td>P31946</td>
</tr>
<tr>
<td><strong>Protein length</strong></td>
<td>Full length protein</td>
</tr>
<tr>
<td><strong>Animal free</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Nature</strong></td>
<td>Recombinant</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human</td>
</tr>
</tbody>
</table>

**Sequence**

```
MTMDKSELVQKAKLAEQAYDDMAAMKAVTEQQ
HELSNERNLLSVAY
KNVVGARRSSWRSVIIEQKTERNEKKQMQGKEYREK
IEAELODICNDVL
ELLDKYLIPNATQPESKVFYLMKGYFRYLSEVASGD
NKQTVSNSSQQA
YQEAFFEKSKEMOPTHPIRLGLALNFSVFYYELNSPEK
ACSLAKTAFDE
AIAELDTLNEEYSKDSTLIMQLLRDNLTLWTSENQGDE
GDAGEGEN
```

**Predicted molecular weight**

55 kDa including tags

**Amino acids**

1 to 246

**Tags**

GST tag N-Terminus

**Additional sequence information**

NP_647539.
Form | Lyophilised
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### Preparation and Storage

**Stability and Storage**  
Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  
PpH: 7.40  
Constituents: 0.61% Tris, 0.87% Sodium chloride, 5% Trehalose  
Lyophilized from 0.22 µm filtered solution.

**Reconstitution**  
It is recommended to reconstitute the lyophilized protein in sterile deionized water to a final concentration of 1mg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

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### General Info

**Function**  
Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Negative regulator of osteogenesis.

**Sequence similarities**  
Belongs to the 14-3-3 family.

**Post-translational modifications**  
The alpha, brain-specific form differs from the beta form in being phosphorylated.  
Isoform Short contains a N-acetylmethionine at position 1.

**Cellular localization**  
Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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### Images

SDS-PAGE analysis of reduced ab219887 stained overnight with Coomassie Blue.  
DTT-reduced protein migrates as 53 kDa in SDS-PAGE.

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