abcam

## Product datasheet

# Recombinant Human AP1S2 protein ab108122

1 Image

### Description

| | |
|---|---|
| **Product name** | Recombinant Human AP1S2 protein |
| **Purity** | > 85 % SDS-PAGE.<br>ab108122 is purified using conventional chromatography techniques. |
| **Expression system** | Escherichia coli |
| **Accession** | **P56377** |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | **MGSSHHHHHHSSGLVPRGSH**MQFMLLFSRQGKLRLQK WYVPLSDKEKKKI TRELVQTVLARKPKMCSFLEWRDLKIVYKRYASLYFCCAIE DQDNELITL EIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQ ETSKKNV LKAIEQADLLQEEAETPRSVLEEIGLT |
| **Predicted molecular weight** | 21 kDa including tags |
| **Amino acids** | 1 to 157 |
| **Tags** | His tag N-Terminus |

### Specifications

Our **Abpromise guarantee** covers the use of **ab108122** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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|---|---|
| **Applications** | SDS-PAGE<br>Mass Spectrometry |
| **Mass spectrometry** | MALDI-TOF |
| **Form** | Liquid |

### Preparation and Storage

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| **Stability and Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw |

cycles.

pH: 8.00
Constituents: 0.0308% DTT, 0.316% Tris HCl, 40% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

## General Info

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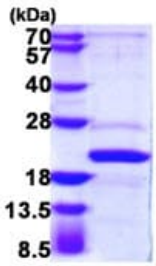
|---|---|
| **Function** | Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. |
| **Tissue specificity** | Widely expressed. |
| **Involvement in disease** | Defects in AP1S2 are the cause of mental retardation X-linked type 59 (MRX59) [MIM:300630]. It is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. In contrast to syndromic or specific X-linked mental retardation which also present with associated physical, neurological and/or psychiatric manifestations, intellectual deficiency is the only primary symptom of non-syndromic X-linked mental retardation. MRX59 consists of a mild-to-profound mental retardation. Other features includes hypotonia early in life and delay in walking. |
| **Sequence similarities** | Belongs to the adaptor complexes small subunit family. |
| **Cellular localization** | Golgi apparatus. Cytoplasmic vesicle membrane. Membrane > clathrin-coated pit. Component of the coat surrounding the cytoplasmic face of coated vesicles located at the Golgi complex. |

## Images




SDS-PAGE - Recombinant Human AP1S2 protein (ab108122)

15% SDS-PAGE analysis of 3µg ab108122.



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