

## Recombinant Human AP1B1, His-tagged

**Cat. No.** AP1B1-9707H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Human AP1B1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 671-919a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Adaptor protein complex 1 is found at the cytoplasmic face of coated vesicles located at the Golgi complex, where it mediates both the recruitment of clathrin to the membrane and the recognition of sorting signals within the cytosolic tails of transmembrane receptors. This complex is a heterotetramer composed of two large, one medium, and one small adaptin subunit. The protein encoded by this gene serves as one of the large subunits of this complex and is a member of the adaptin protein family. This gene is a candidate meningioma gene. Alternative splicing results in multiple transcript variants. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### GENE INFORMATION

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | AP1B1 adaptor-related protein complex 1, beta 1 subunit [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>     | AP1B1                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | AP1B1; adaptor-related protein complex 1, beta 1 subunit; ADTB1, CLAPB2; AP-1 complex subunit beta-1; AP105A; BAM22; beta1-adaptin; beta-1-adaptin; beta-adaptin 1; beta-prime-adaptin; Golgi adaptor HA1/AP1 adaptin beta subunit; adaptor protein complex AP-1 subunit beta-1; adapter-related protein complex 1 subunit beta-1; clathrin assembly protein complex 1 beta large chain; plasma membrane adaptor HA2/AP2 adaptor beta subunit; ADTB1; CLAPB2; |
| <b>Gene ID</b>             | 162                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_001127                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_001118                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>                 | 600157                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | Q10567                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 22q12.2                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | Clathrin derived vesicle budding, organism-specific biosystem; Disease, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Golgi Associated Vesicle Biogenesis, organism-specific biosystem; HIV Infection, organism-specific biosystem; Host Interactions of HIV factors, organism-specific biosystem; Lysosome, organism-specific biosystem;                                                                     |
| <b>Function</b>            | protein binding; protein transporter activity; transporter activity;                                                                                                                                                                                                                                                                                                                                                                                          |

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