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Datasheet for ABIN7551413

**ARHGAP11B Protein (AA 1-267) (His tag)**

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | ARHGAP11B  |
| Protein Characteristics:      | AA 1-267   |
| Origin:                       | Human  |
| Source:                       | HEK-293 Cells                                    |
| Protein Type:                 | Recombinant                                      |
| Purification tag / Conjugate: | This ARHGAP11B protein is labelled with His tag. |

## Product Details

|                  |  |
|------------------|--|
| Purpose:         | Custom-made recombinant ARHGAP11B Protein expressed in mammalian cells.  |
| Sequence:        | MWDQRLVKLA LLQHLRFYQ IKVKGVRGQC DRRRHETAAT EIGGKIFGVP FNALPHSAVP<br>EYGHIPSFLV DACTSLEEH I HTEGLFRKSG SVIRLKALKN KVDHGEGCLS SAPPDCIAGL<br>LKQFFRELPE PILPADLHEA LLKAQQLGTE EKNKAILLS CLLADHTVHV LRYFFNFLRN<br>VSLRSENKM DSSNLAVIFA PNLLQTSEGH EKMSNAEKK GYQTLWKR YQPCWVLMVS<br>VLLHHWKALK KVMKLLVNI REREDNV <b>Sequence without tag. The proposed Purification-<br/>Tag is based on experiences with the expression system, a different complexity of the<br/>protein could make another tag necessary. In case you have a special request, please<br/>contact us.</b> |
| Specificity:     | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.  |
| Characteristics: | Key Benefits:  |

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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|         |   |
|---------|---|
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
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| Grade: | custom-made |
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## Target Details

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|         |           |
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| Target: | ARHGAP11B |
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|-------------------|--|
| Alternative Name: | ARHGAP11B ( <a href="#">ARHGAP11B Products</a> ) |
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|             |  |
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| Background: | <p>Inactive Rho GTPase-activating protein 11B (Rho-type GTPase-activating protein 11B),FUNCTION: Hominin-specific protein that promotes development and evolutionary expansion of the brain neocortex (PubMed:25721503, PubMed:27957544, PubMed:30484771, PubMed:32554627, PubMed:33938018). Able to promote amplification of basal progenitors in the subventricular zone, producing more neurons during fetal corticogenesis, thereby playing a key role in neocortex expansion (PubMed:25721503). Promotes the proliferation of basal progenitors by inhibiting the mitochondrial permeability transition pore (mPTP): delays the opening of the mPTP via interaction with ADP:ATP translocase, thereby increasing mitochondrial Ca(2+) concentration and inducing glutamine catabolism, which is required for basal progenitor proliferation (PubMed:31883789). Does not possess GTPase activator activity: the absence of GTPase activator activity is required to promote amplification of basal progenitors during neocortex development (PubMed:25721503, PubMed:27957544). {ECO:0000269 PubMed:25721503, ECO:0000269 PubMed:27957544, ECO:0000269 PubMed:30484771, ECO:0000269 PubMed:31883789,</p> |
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## Target Details

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ECO:0000269|PubMed:32554627, ECO:0000269|PubMed:33938018}.

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Molecular Weight: 30.3 kDa

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UniProt: [Q3KRB8](#)

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## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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