

Datasheet for ABIN6979749

**anti-PRAS40 antibody (AA 161-256) (AbBy Fluor® 647)**[Go to Product page](#)

## Overview

|                      |                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                         |
| Target:              | PRAS40 (AKT1S1)                                                                                                                |
| Binding Specificity: | AA 161-256                                                                                                                     |
| Reactivity:          | Human                                                                                                                          |
| Host:                | Rabbit                                                                                                                         |
| Clonality:           | Polyclonal                                                                                                                     |
| Conjugate:           | This PRAS40 antibody is conjugated to AbBy Fluor® 647                                                                          |
| Application:         | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

## Product Details

|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human PRAS40 |
| Isotype:              | IgG                                                        |
| Cross-Reactivity:     | Human                                                      |
| Predicted Reactivity: | Mouse,Rat,Cow,Sheep,Pig,Horse                              |
| Purification:         | Purified by Protein A.                                     |

## Target Details

|                   |                                            |
|-------------------|--------------------------------------------|
| Target:           | PRAS40 (AKT1S1)                            |
| Alternative Name: | PRAS40 ( <a href="#">AKT1S1 Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>Synonyms: AKT1 substrate 1 (proline rich), AKT1 substrate 1, AKT1-S1, AKT1S-1, AKT1S 1, AKT1S1, Lobe, PRAS 40, PRAS-40, PRAS40, Proline rich akt substrate, 40 kDa proline rich AKT substrate, 40 kDa proline-rich AKT substrate, AKT1 S1, AKT1 substrate 1, AKTS1_HUMAN, MGC2865, PRAS40, Proline rich Akt substrate 40 kDa, Proline-rich AKT1 substrate 1.</p> <p>Background: Proline Rich Akt Substrate (PRAS40) is a 40 kDa substrate of Akt. Akt and PRAS40 can be found in the phosphoinositide 3 kinase (PI3K) pathway, which plays a role in glucose uptake, cell growth, and apoptosis inhibition. PRAS40 is a 14-3-3 binding protein that reacts with insulin, but whose precise function is not yet known. It may bind SH3 and WW domain containing proteins resulting in a change of function. Activated Akt phosphorylates PRAS40 on threonine 246. Mutation of PRAS40 threonine 246 has been shown to be apoptotic.</p> |
| Gene ID:    | 84335                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UniProt:    | <a href="#">Q96B36</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pathways:   | <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Autophagy</a> , <a href="#">BCR Signaling</a> , <a href="#">Warburg Effect</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Application Details

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only                                        |

## Handling

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                             |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                  |

Handling

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Expiry Date: 12 months