

A Reliable Research Partner in Life Science and Medicine

## **Recombinant PRAS40 Monoclonal Antibody**

catalog number: AN301877L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human;Rat;Mouse

Immunogen Recombinant human PRAS40 fragment

Host Rabbit Isotype lgG, κ Clone A589

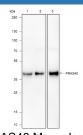
**Purification** Protein Apurified

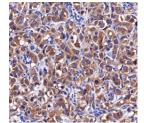
Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

#### **Applications Recommended Dilution**

1:500-1:1000 WB 1:50-1:200 IHC

#### Data

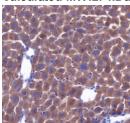


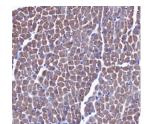


of 1:1000. Lane 1: MCF-7, Lane 2: HeLa, Lane 3: PC-12

Western Blot with PRAS40 Monoclonal Antibody at dilution Immunohistochemistry of paraffin-embedded Human breast cancer using PRAS40 Monoclonal Antibody at dilution of 1:200.

### Observed-MW:40 kDa Calculated-MW:27 kDa





Immunohistochemistry of paraffin-embedded Mouse liver using PRAS40 Monoclonal Antibody at dilution of 1:200.

Immunohistochemistry of paraffin-embedded Rat cardiac muscle using PRAS40 Monoclonal Antibody at dilution of 1:200.

Rev. V1.1

#### **Preparation & Storage**

**Storage** Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping** Ice bag

#### **Background**

#### For Research Use Only

Toll-free: 1-888-852-8623 Fax: 1-832-243-6017 Tel: 1-832-243-6086 Web: www.elabscience.com Email: techsupport@elabscience.com

# Elabscience®

#### **Elabscience Bionovation Inc.**

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PRAS40 is a proline-rich protein with a molecular weight of 40 kDa that acts as a substrate for the serine / threonine kinase Akt. PRAS40 also binds mTOR to transduce Akt signals to the mTOR complex. Inhibition of mTOR signaling stimulates PRAS40 binding to mTOR, which in turn inhibits mTOR activity. PRAS40 interacts with raptor in mTOR complex 1 (mTORC1) in insulin-deprived cells and inhibits the activation of the mTORC1 pathway mediated by the cell cycle protein Rheb. Phosphorylation of PRAS40 by Akt at Thr246 relieves PRAS40 inhibition of mTORC1. mTORC1 in turn phosphorylates PRAS40 at Ser183.

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