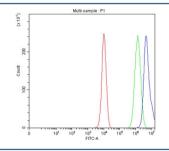


# SIM2 Antibody / Single-minded homolog 2 / BHLHE15 (RQ8701)

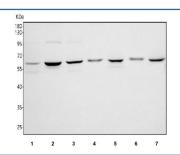
Catalog No.	Formulation	Size
RQ8701	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

# **Bulk quote request**

Availability	1-3 days
Species Reactivity	Human, Monkey, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity chromatography
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q14190
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This SIM2 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human PC-3 cells with SIM2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= SIM2 antibody.



Western blot testing of 1) human PC-3, 2) human HepG2, 3) monkey COS-7, 4) rat skeletal muscle, 5) rat brain, 6) mouse skeletal muscle and 7) mouse skeletal muscle tissue lysate with SIM2 antibody. Predicted molecular weight ~73 kDa (SIM2) and ~65 kDa (SIM2S).

## **Description**

Single-minded homolog 2 is a protein that in humans is encoded by the SIM2 gene. This gene represents a homolog of the Drosophila single-minded (sim) gene, which encodes a transcription factor that is a master regulator of neurogenesis. The encoded protein is ubiquitinated by RING-IBR-RING-type E3 ubiquitin ligases, including the parkin RBR E3 ubiquitin protein ligase. This gene maps within the so-called Down syndrome chromosomal region, and is thus thought to contribute to some specific Down syndrome phenotypes. Alternative splicing of this gene results in multiple transcript variants.

#### **Application Notes**

Optimal dilution of the SIM2 antibody should be determined by the researcher.

## **Immunogen**

An E.coli-derived human recombinant protein (amino acids Y337-R609) was used as the immunogen for the SIM2 antibody.

#### **Storage**

After reconstitution, the SIM2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.