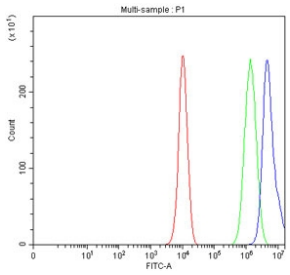
SIM2 Antibody / Single-minded homolog 2 / BHLHE15 (RQ8701)

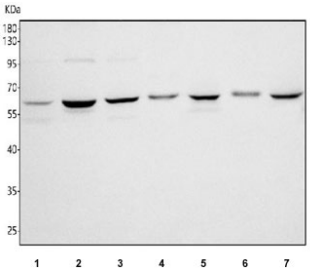
Catalog No.	Formulation	Size
RQ8701	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 days
Species Reactivity	Human, Monkey, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
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.

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