Datasheet for ABIN1394282 anti-SIM2 antibody (AA 321-430) (FITC)

antibodies.com





| $\sim$ |    |   |    |    |   |    |
|--------|----|---|----|----|---|----|
| ()     | \/ |   | r\ | /1 |   | W  |
| $\cup$ | v  | C | ιv | 1  | C | vv |

| Quantity:            | 100 µL  |  |
|----------------------|---|--|
| Target:              | SIM2  |  |
| Binding Specificity: | AA 321-430  |  |
| Reactivity:          | Human   |  |
| Host:                | Rabbit  |  |
| Clonality:           | Polyclonal  |  |
| Conjugate:           | This SIM2 antibody is conjugated to FITC  |  |
| Application:         | Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |  |

## Product Details

| Immunogen:            | KLH conjugated synthetic peptide derived from human SIM2 |
|-----------------------|--|
| Isotype:              | IgG  |
| Predicted Reactivity: | Human,Mouse,Rat,Dog,Cow,Sheep,Pig,Horse                  |
| Purification:         | Purified by Protein A.                                   |

## Target Details

| Target:           | SIM2   |
|-------------------|--|
| Alternative Name: | SIM2 (SIM2 Products)   |
| Background:       | Synonyms: bHLHe15, Class E basic helix loop helix protein 15, Class E basic helix-loop-helix |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/2 | Product datasheet for ABIN1394282 | 03/07/2024 | Copyright antibodies-online. All rights reserved. protein 15, MGC119447, SIM 2, SIM, Sim2, SIM2\_HUMAN, Single minded homolog 2 Drosophila, Single minded homolog 2, Single-minded homolog 2, Transcription factor SIM2. Background: The Per-Arnt-Sim (PAS) domain was identified as a 270 amino acid motif that mediates associations between various PAS family transcription factors. Several PAS domain family members have been identified including AhR, Arnt 1, and single-minded proteins (SIM1 and SIM2). The aromatic (aryl) hydrocarbon receptor, AhR, is a ligand dependent transcription factor that interacts with specific DNA sequences termed xenobiotic responsive elements (XREs) to activate several genes including CYP1A1, glutathione S-transferase Ya subunit and DT-diaphorase. The Ah receptor nuclear translocator protein 1 (Arnt 1) is required for liganddependent nuclear translocation of the Ah receptor and is also necessary for Ah receptor binding to the XRE element. Both SIM1 and SIM2 inhibit AhR/Arnt dimerization, thus inhibiting transcriptional activation. The SIM genes are thought to be involved in the directing and regionalization of tissues during development and the SIM2 gene, which is located on chromosome 21, is a candidate for the gene responsible for Down syndrome.

## Application Details

| Application Notes: | IF(IHC-P) 1:50-200   |
|--------------------|--|
|                    | IF(IHC-F) 1:50-200   |
|                    | 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.            |
| Expiry Date:       | 12 months  |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/2 | Product datasheet for ABIN1394282 | 03/07/2024 | Copyright antibodies-online. All rights reserved.