

Anti-SUR1 [N289/16] Standard Size Ab02165-8.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Variable region sequences were determined by Dr. James Trimmer at the University of California, Davis, as supported by National Institutes of Health BRAIN Initiative award U24 NS109113.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG2b, [Fc Silent™](#), Kappa

Clone Number: N289/16

Alternative Name(s) of Target: N289/16R; ATP-binding cassette sub-family C member 8; Sulfonylurea receptor 1; Abcc8

UniProt Accession Number of Target Protein: Q09429

Published Application(s): WB

Published Species Reactivity: Hamster, Rat, Mouse

Immunogen: This antibody was raised by immunising BALB/c mice with a fusion protein amino acids 1548-1582 (LVMVLKRGAILFDKPEKLLSQKDSVFASFVRADK, cytoplasmic C-terminus) of rat SUR1.

Specificity: This antibody is specific for the SUR1 protein. It does not cross-react with SUR2B. SUR1 is a subunit of the beta-cell ATP-sensitive potassium channel (KATP). Regulator of ATP-sensitive K⁺ channels and insulin release.

Application Notes: The IgG1 antibody was used for western blotting on CA15 cells (Bruin et al, 2014; PMID:24257076). Immunofluorescence was preformed with the IgG1 version of this antibody on HeLa cells (Karnik et al, 2013; PMID:24392021). The IgG1 version of this antibody was used to preform western blot on COS6m cells (Li et al, 2013; PMID:23798684).

Antibody First Published in: Andrews et al. A toolbox of IgG subclass-switched recombinant monoclonal antibodies for enhanced multiplex immunolabeling of brain eLife. 2019; 8: e43322. [PMID:30667360](#)

Note on publication: This article describes the generation of a library of recombinant monoclonal antibodies (R-mAbs) from a pool of mAb-producing hybridomas for neuroscience research.

Product Form

Size:

200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.