

Datasheet for ABIN7043789
anti-SYNGAP1 antibody (C-Term)[Go to Product page](#)

2 Images

Overview

Quantity:	25 µL
Target:	SYNGAP1
Binding Specificity:	AA 1185-1199, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SYNGAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KSMDESRLDRVKEYE, corresponding to amino acid residues 1185-1199 of rat SynGAP
Isotype:	IgG
Characteristics:	Anti-SynGAP Antibody (ABIN7043789, ABIN7045176 and ABIN7045177)) is a highly selective antibody directed against an epitope of the rat protein. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize SynGAP from human, mouse, and rat samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

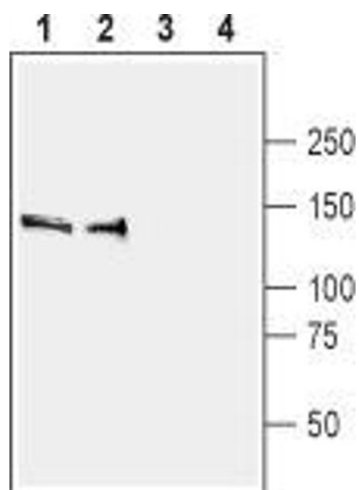
Target:	SYNGAP1
Alternative Name:	SynGAP (SYNGAP1 Products)
Background:	Alternative names: SynGAP, SynGAP1, Synaptic Ras GTPase-activating protein 1, Synaptic Ras-GAP 1, Neuronal RasGAP, p135 SynGAP
Gene ID:	192117
NCBI Accession:	NM_006772
UniProt:	Q9QUH6
Pathways:	Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

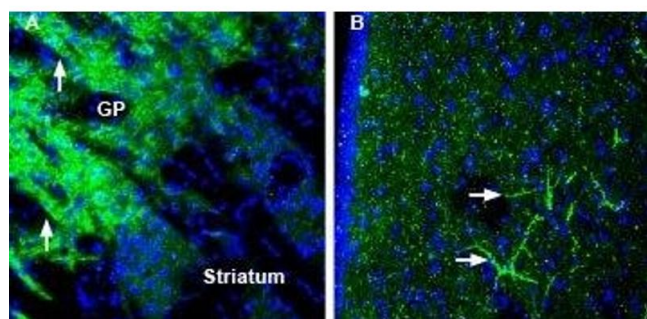
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



Western Blotting

Image 1. Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) brain membranes: - 1,2 Anti-SynGAP Antibody (ABIN7043789, ABIN7045176 and ABIN7045177), (1:400).3,4. Anti-SynGAP Antibody, preincubated with SynGAP Blocking Peptide (#BLP-PZ032).



Immunohistochemistry

Image 2. Expression of SynGAP in mouse globus pallidus and rat lateral septum - Immunohistochemical staining of perfusion-fixed frozen mouse and rat brain sections using Anti-SynGAP Antibody (ABIN7043789, ABIN7045176 and ABIN7045177), (1:200), followed by goat-anti-rabbit-AlexaFluor-488. A. SynGAP staining (green) in mouse brain is detected in neuropil (arrows) in the globus pallidus (GP) that is markedly stronger than in the striatum. B. SynGAP staining in rat brain sections shows lateral septum labeling of profiles of neuronal processes (horizontal arrows). Cell nuclei are stained with DAPI (blue).