Datasheet for ABIN2485817

anti-NPAS4 antibody (AA 597-802) (Biotin)

2 Images

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Overview

Quantity:	100 µg
Target:	NPAS4
Binding Specificity:	AA 597-802
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NPAS4 antibody is conjugated to Biotin
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Fusion protein amino acids 597-802 (C-terminus) of rat Npas4.
Clone:	S408-79
Isotype:	IgG1
Specificity:	Highly expressed in the brain, with lower expression found in endocrine tissue.,Detects ~90 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

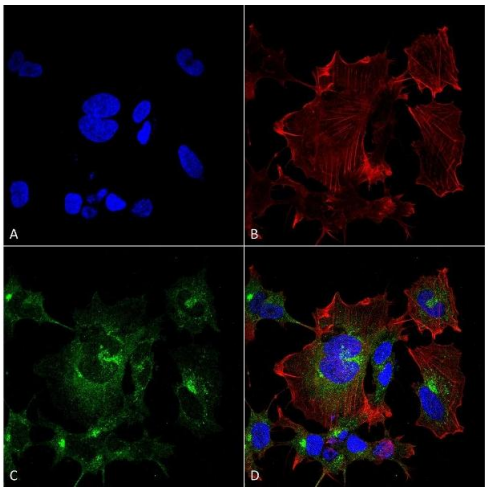
Target:	NPAS4
Alternative Name:	NPAS4 (NPAS4 Products)
Background:	NPAS4 belongs to the Per-Arnt-Sim family of neuronal specific transciption factors, all involved in the development and maintenance of learning and memory pathways (1). NPAS4 is a transcription factor that regulates the formation and maintenance of inhibitory synapses, and can activate the CNS midline enhancer element and the expression of the drebrin gene. Deregulation has been to be associated with developmental disorders such as schizophrenia and autism (2).
Gene ID:	266734
NCBI Accession:	NP_705890
UniProt:	Q8CJH6

Application Details

Application Notes:	• WB (1:1000) • ICC/IF(1:100) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:100 dilution of ABIN2485817 was sufficient for detection of NPAS4 in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

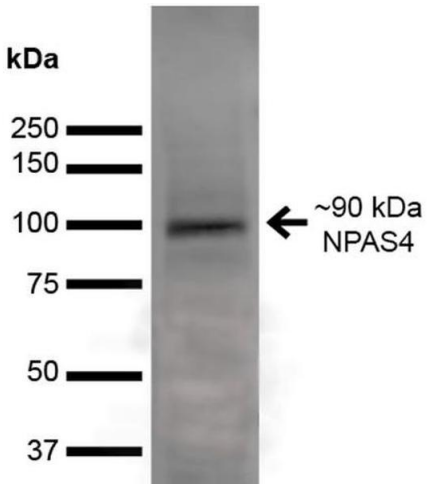
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated
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:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-NPAS4 Monoclonal Antibody, Clone S408-79 (ABIN2485817). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4 % Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-NPAS4 Monoclonal Antibody (ABIN2485817) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain, DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min RT, 5 min RT. Localization: Cytoplasm. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) NPAS4 Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat Brain showing detection of ~90 kDa NPAS4 protein using Mouse Anti-NPAS4 Monoclonal Antibody, Clone S408-79 . Lane 1: MW Ladder. Lane 2: Rat Brain. Load: 20 µg. Block: 2% GE Healthcare Blocker for 1 hour at RT. Primary Antibody: Mouse Anti-NPAS4 Monoclonal Antibody at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~90 kDa. Other Band(s): ~60, 45, 40, 38, 25, 20 kDa.