

Datasheet for ABIN6932481 **anti-NPAS4 antibody (AA 597-802) (Atto 488)**

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2 Images

Overview

Quantity:	100 µg
Target:	NPAS4
Binding Specificity:	AA 597-802
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NPAS4 antibody is conjugated to Atto 488
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

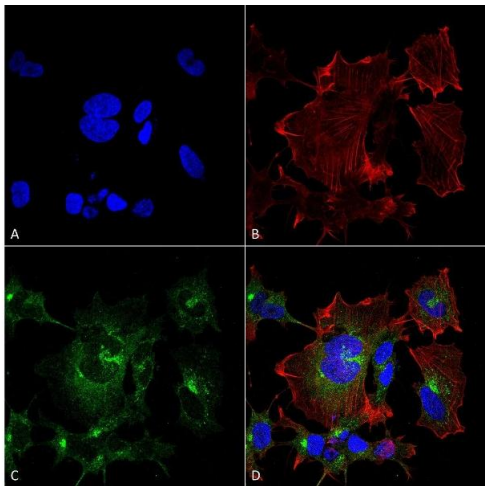
Target:	NPAS4
Alternative Name:	NPAS4 (NPAS4 Products)
Background:	<p>NPAS4 belongs to the Per-Arnt-Sim family of neuronal specific transcription factors, all involved in the development and maintenance of learning and memory pathways (1). NPAS4 is a transcription factor that regulates the formation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

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• ICC/IF(1:100)• optimal dilutions for assays should be determined by the user.
Comment:	A 1:100 dilution of ABIN6932481 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

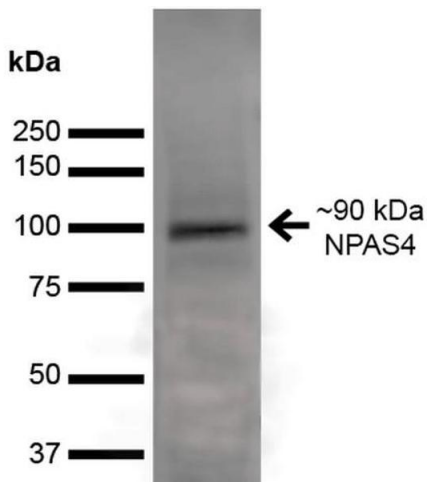
Handling

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 (ABIN6932481). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4 % Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-NPAS4 Monoclonal Antibody (ABIN6932481) 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 (ABIN6932481). 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 (ABIN6932481) 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.