

Datasheet for ABIN7043382  
**anti-NPTN antibody (Extracellular, N-Term)**

## 3 Images

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## Overview

Quantity:	25 µL
Target:	NPTN
Binding Specificity:	AA 194-210, Extracellular, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)RKNASNMEYRINKPRAE, corresponding to amino acid residues 194-210 of rat NPTN
Isotype:	IgG
Characteristics:	Anti-Neuroplastin (extracellular) Antibody (ABIN7043382, ABIN7044710 and ABIN7044711)) is a highly specific antibody designed against an epitope of the rat protein. The antibody can be used in western blot and immunohistochemistry applications. The antibody recognizes an extracellular epitope and is thus ideal for detecting NPTN in living cells. It has been designed to recognize NPTN from rat, mouse and human samples.
Purification:	Affinity purified on immobilized antigen.

## Target Details

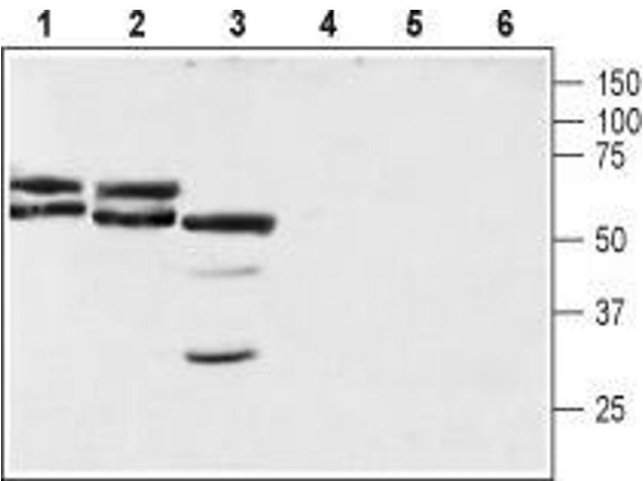
Target:	NPTN
Alternative Name:	Neuroplastin ( <a href="#">NPTN Products</a> )
Background:	Alternative names: Neuroplastin, NPTN, Glycoprotein 55/65, GP55, GP65, Np55, Np65, Stromal cell-derived receptor 1, SDR1, SDFR1
Gene ID:	56064
NCBI Accession:	<a href="#">NM_012428</a>
UniProt:	<a href="#">P97546</a>
Pathways:	<a href="#">Regulation of long-term Neuronal Synaptic Plasticity</a>

## Application Details

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

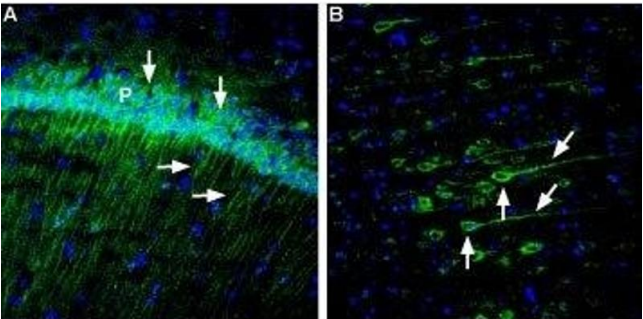
## Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 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>



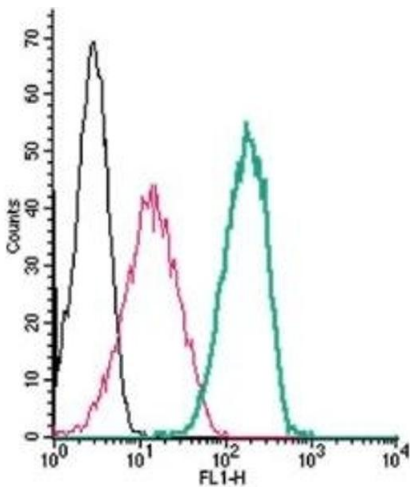
### Western Blotting

**Image 1.** Western blot analysis of rat brain lysate (lanes 1 and 4), rat cerebellum lysate (lanes 2 and 5) and mouse brain membrane (lanes 3 and 6): - 1-3. Anti-Neuroplastin (extracellular) Antibody (ABIN7043382, ABIN7044710 and ABIN7044711), (1:400). 4-6. Anti-Neuroplastin (extracellular) Antibody, preincubated with Neuroplastin (extracellular) Blocking Peptide (#BLP-NR090).



### Immunohistochemistry

**Image 2.** Expression of Neuroplastin in rat hippocampus and rat cortex - Immunohistochemical staining of free floating frozen section of rat hippocampal CA1 region (A) and posterior cingulate cortex (B) using Anti-Neuroplastin (extracellular) Antibody (ABIN7043382, ABIN7044710 and ABIN7044711), (1:120). A. NPTN staining (green) appears in neurons (vertical arrows) of the pyramidal layer (P) and in apical dendrites (horizontal arrows). B. NPTN staining (green) is detected in pyramidal neurons in the soma (vertical arrows) and in their apical dendrites (diagonal arrows). Nuclei were stained using DAPI as the counterstain (blue).



### Flow Cytometry

**Image 3.** Cell surface detection of Neuroplastin by indirect flow cytometry in live intact human THP-1 monocytic leukemia cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-Neuroplastin (extracellular) Antibody (ABIN7043382, ABIN7044710 and ABIN7044711), (2.5 µg) + goat-anti-rabbit-FITC.