For Research Use Only

SCN9A/Nav1.7-Specific Polyclonal antibody

Catalog Number:20257-1-AP

7 Publications

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Basic Information

Catalog Number:
20257-1-AP

Size:
400 ug/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_002977

GeneID (NCBI):
6335

UNIPROT ID:
Q15858

Full Name:
sodium channel, voltage-gated, type IX, alpha subunit

Calculated MW:
226 kDa

Observed MW:
226 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, pig

Cited Species:
mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, mouse cerebellum tissue, pig brain tissue

IHC : mouse brain tissue,

Background Information

SCN9A, also named as NENA, PN1, ETHA, NE-NA, Nav1.7 and hNE-Na, belongs to the sodium channel family. SCN9A mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, SCN9A forms a sodium-selective channel through which Na+ ions may pass in accordance with their electrochemical gradient. It is a tetrodotoxin-sensitive Na+ channel isoform. SCN9a plays a role in pain mechanisms, especially in the development of inflammatory pain. Defects in SCN9A are the cause of primary erythermalgia or autosomal recessive congenital indifference to pain or paroxysmal extreme pain disorder (PEPD). The antibody is specific to SCN9A

Notable Publications

Author	Pubmed ID	Journal	Application
Yi-Zhou Jin	31152853	Neurosci Lett	WB,IF
Peng Zhang	28349234	Inflammation	WB
Rui Yun Bi	26981605	Chin J Dent Res	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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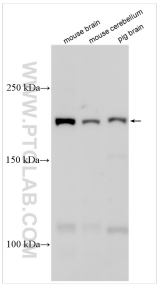
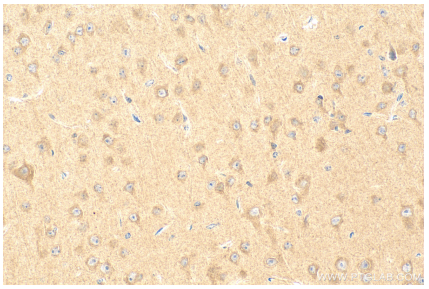
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20257-1-AP (SCN9A/Nav1.7-Specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 20257-1-AP (SCN9A/Nav1.7-Specific antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).