DATASHEET

NAV2 Rabbit Polyclonal Antibody

CAT. NO. APA11141

KEY FEATURES

Target	NAV2	Source / Host	Rabbit
Reactivity	Human, Mouse	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Possesses 3' to 5' helicase activity and exonuclease activity . Involved in cytoskeleton organization . Required for neurite outgrowth in response to stimulation by all-trans retinoic acid (atRA) . Involved in neuronal development, specifically in the development of different sensory organs . Important for brain and cerebellar development . Involved in the differentiation, migration and axonal extension of granule cells in the developing cerebellum . Involved in the development of the glossopharyngeal cranial nerve IX and the vagus cranial nerve X, possibly by influencing neuronal cell elongation or survival; influencing the efficiency of the baroreceptor reflex response to changes in blood pressure .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to NAV2
Specificity	Recognizes endogenous levels of NAV2 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human NAV2. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 268 kD; Observed: 268 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	HELAD1; KIAA1419; POMFIL2; RAINB1; STEERIN2; Neuron navigator 2; Helicase APC down-regulated 1; Pore membrane and/or filament-interacting-like protein 2; Retinoic acid inducible in neuroblastoma 1; Steerin-2; Unc-53 homolog 2; unc53H2
Gene Symbol	NAV2
Entrez Gene	89797(Human)
SwissProt	Q8IVL1(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

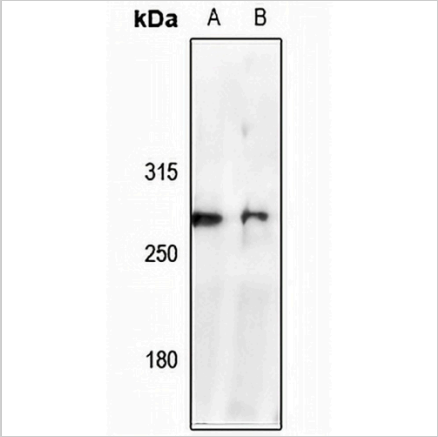
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

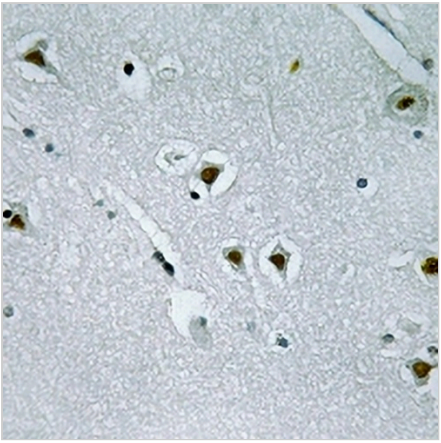
NAV2 Rabbit Polyclonal Antibody

CAT. NO. APA11141

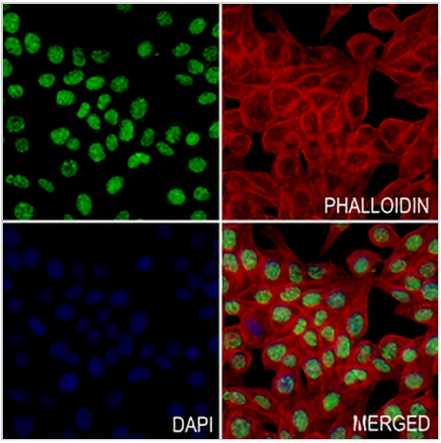
DATA



Western blot analysis of NAV2 expression in AML12 (A), U87MG (B) whole cell lysates. (Predicted band size: 268 kD; Observed band size: 268 kD)



Immunohistochemical analysis of NAV2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of NAV2 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.