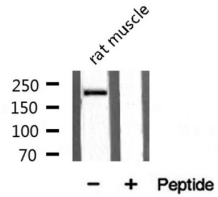
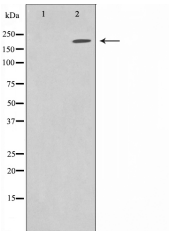
Sodium Channel-pan Ab

Cat.#: AF0255	Concn.: 1mg/ml	Mol.Wt.: 230kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

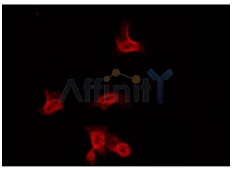
Application:	WB: 1:500~1:3000 IHC: 1:50~1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	Sodium Channel-pan Ab detects endogenous levels of total Sodium Channel-pan.
Immunogen:	A synthesized peptide derived from human Sodium Channel-pan.
Uniprot:	P35498/P35499/Q14524/Q15858/Q99250/Q9NY46/Q9UI33/Q9UQD0/Q9Y5Y9
Description:	SCN5A This protein mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which Na(+) ions may pass in accordance with their electrochemical gradient. It is a tetrodotoxin-resistant Na(+) channel isoform.
Subcellular Location:	Plasma membrane;
Similarity:	The sequence contains 4 internal repeats, each with 5 hydrophobic segments (S1, S2, S3, S5, S6) and one positively charged segment (S4). Segments S4 are probably the voltage-sensors and are characterized by a series of positively charged amino acids at every third position.The S3b-S4 and S1-S2 loops of repeat IV are targeted by H.maculata toxins Hm1a and Hm1b, leading to inhibit fast inactivation of Nav1.1/SCN1A. Selectivity for H.maculata toxins Hm1a and Hm1b depends on S1-S2 loops of repeat IV.Belongs to the sodium channel (TC 1.A.1.10) family. Nav1.1/SCN1A subfamily. [View classification]
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis on rat muscle tissue lysate using Sodium Channel-pan Ab



Western blot analysis on HuvEc cell lysate using Sodium Channel-pan Ab,The lane on the left is treated with the antigen-specific peptide.



AF0255 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.