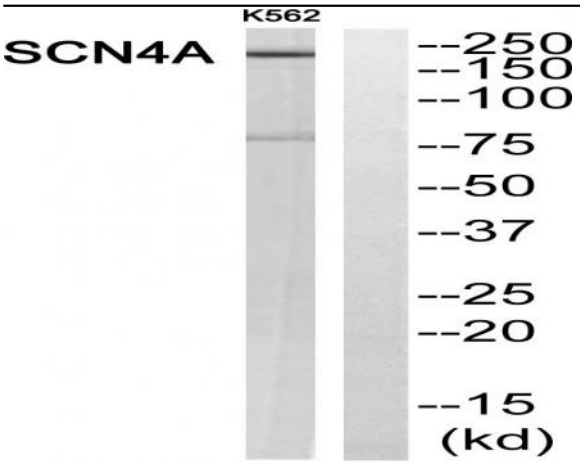
Best Tools for immunology Research

Na+ CP type IVα Polyclonal Antibody

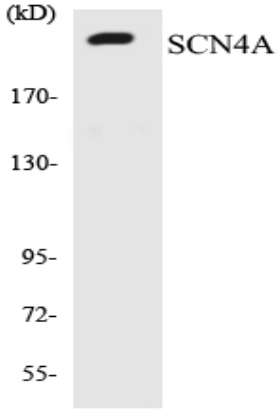
Catalog No :	YT2966
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC
Target :	Na+ CP type IVα
Gene Name :	SCN4A
Protein Name :	Sodium channel protein type 4 subunit alpha
Human Gene Id :	6329
Human Swiss Prot No :	P35499
Mouse Gene Id :	110880
Mouse Swiss Prot No :	Q9ER60
Rat Gene Id :	25722
Rat Swiss Prot No :	P15390
Immunogen :	The antiserum was produced against synthesized peptide derived from human SCN4A. AA range:431-480
Specificity :	Na+ CP type IVα Polyclonal Antibody detects endogenous levels of Na+ CP type IVα protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000;IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	200kD
Background :	Voltage-gated sodium channels are transmembrane glycoprotein complexes composed of a large alpha subunit with 24 transmembrane domains and one or more regulatory beta subunits. They are responsible for the generation and propagation of action potentials in neurons and muscle. This gene encodes one member of the sodium channel alpha subunit gene family. It is expressed in skeletal muscle, and mutations in this gene have been linked to several myotonia and periodic paralysis disorders. [provided by RefSeq, Jul 2008],
Function :	disease:Defects in SCN4A are a cause of periodic paralysis hypokalemic (HOKPP) [MIM:170400]; also designated HYPOPP. HOKPP is an autosomal dominant disorder manifested by episodic flaccid generalized muscle weakness associated with falls of serum potassium levels.,disease:Defects in SCN4A are the cause of a congenital myasthenic syndrome due to mutation in SCNA4 (CMSSCNA4) [MIM:603967]. CMSSCNA4 is a congenital myasthenic syndrome associated with fatigable generalized weakness and recurrent attacks of respiratory and bulbar paralysis since birth. The fatigable weakness involves lid-elevator, external ocular, facial, limb and truncal muscles and an decremental response of the compound muscle action potential on repetitive stimulation.,disease:Defects in SCN4A are the cause of myotonia SCN4A-related (MYOSCN4A) [MIM:608390]. Myotonia is characterized by sustained muscle tensing that prevent
Subcellular Location :	Cell membrane ; Multi-pass membrane protein .
Expression :	Skeletal muscle,
Sort :	10536
No4 :	1

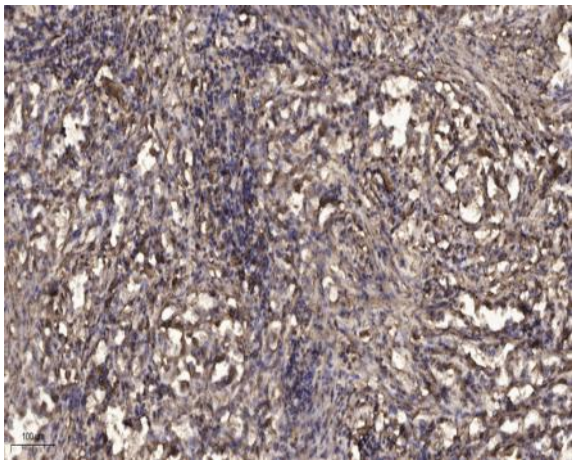
Products Images



Western blot analysis of SCN4A Antibody. The lane on the right is blocked with the SCN4A peptide.



Western blot analysis of the lysates from COLO205 cells using SCN4A antibody.



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).