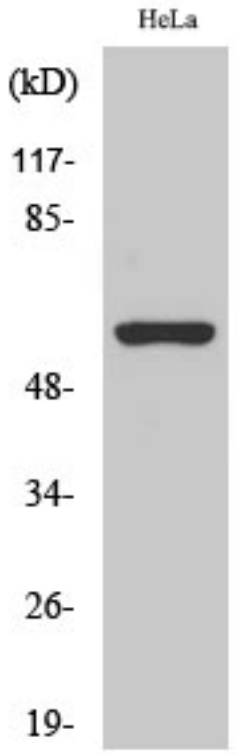
AChRα3 Polyclonal Antibody

Catalog No	BYab-31977
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	CHRNA3
Protein Name	Neuronal acetylcholine receptor subunit alpha-3
Immunogen	The antiserum was produced against synthesized peptide derived from human AChRalpha3. AA range:90-139
Specificity	AChRα3 Polyclonal Antibody detects endogenous levels of AChRα3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CHRNA3; NACHRA3; Neuronal acetylcholine receptor subunit alpha-3
Observed Band	57kD
Cell Pathway	Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane ; Multi-pass membrane protein.
Tissue Specificity	Brain,Keratinocyte,Lung,Thymus,
Function	disease:Genetic variations in CHRNA3 may be associated with susceptibility to lung cancer type 2 (LNCR2) [MIM:612052].,disease:Genetic variations in CHRNA3 may be associated with susceptibility to peripheral arterial occlusive disease type 2 (PAOD2) [MIM:612052]. PAOD results from atherosclerosis of large and medium peripheral arteries, as well as the aorta. Many risk factors contribute to PAOD, including smoking, diabetes, hypertension, and hyperlipidemia. PAOD often coexists with coronary artery disease and cerebrovascular disease.,function:After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.,similarity:Belongs to the ligand-gated ionic channel (TC 1.A.9)

	family.,subunit:Neuronal AChR is composed of two different types of subunits: alpha and beta. Alp
Background	This locus encodes a member of the nicotinic acetylcholine receptor family of proteins. Members of this family of proteins form pentameric complexes comprised of both alpha and beta subunits. This locus encodes an alpha-type subunit, as it contains characteristic adjacent cysteine residues. The encoded protein is a ligand-gated ion channel that likely plays a role in neurotransmission. Polymorphisms in this gene have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using AChRα3 Polyclonal Antibody

Western blot analysis of lysate from HeLa cells, using AChRα3 antibody.