



Anti-CHRFAM7A monoclonal antibody (DCABH-11008)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The family member CHRNA7, which is located on chromosome 15 in a region associated with several neuropsychiatric disorders, is partially duplicated and forms a hybrid with a novel gene from the family with sequence similarity 7 (FAM7A). Alternative splicing has been observed, and two variants exist, for this hybrid gene. The N-terminally truncated products predicted by the largest open reading frames for each variant would lack the majority of the neurotransmitter-gated ion-channel ligand binding domain but retain the transmembrane region that forms the ion channel. Although current evidence supports transcription of this hybrid gene, translation of the nicotinic acetylcholine receptor-like protein-encoding open reading frames has not been confirmed.
Immunogen	A synthetic peptide of human CHRFAM7A is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	CHRFAM7A CHRNA7 (cholinergic receptor, nicotinic, alpha 7, exons 5-10) and FAM7A (family with sequence similarity 7A, exons A-E) fusion [Homo sapiens]
Official Symbol	CHRFAM7A
Synonyms	CHRFAM7A; CHRNA7 (cholinergic receptor, nicotinic, alpha 7, exons 5-10) and FAM7A (family with sequence similarity 7A, exons A-E) fusion; CHRNA7-FAM7A fusion protein; CHRNA7 DR1; D 10; alpha-7 nicotinic cholinergic receptor subunit; alpha 7 neuronal nicotinic acetylcholine receptor-FAM7A hybrid; CHRNA7 (cholinergic receptor, nicotinic, alpha polypeptide 7, exons 5-10) and FAM7A (family with sequence similarity 7A, exons A-E) fusion; D-10; CHRNA7; CHRNA7-DR1; MGC120482; MGC120483;
Entrez Gene ID	89832
Protein Refseq	NP_647536
UniProt ID	Q494W8
Chromosome Location	15q13.2
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem; Highly calcium permeable postsynaptic nicotinic acetylcholine receptors, organism-specific biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Receptor Binding And Downstream Transmission In ThePostsynaptic Cell, organism-specific biosystem; Postsynaptic nicotinic acetylcholine receptors, organism-specific biosystem; Transmi
Function	extracellular ligand-gated ion channel activity;