Human acetylcholine receptor antibody,AChRab ELISA Kit

Product Code	CSB-E08371h
Abbreviation	AChR Ab
Target Name	acetylcholine receptor antibody,AChRab
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum
Detection Range	Request Information
Sensitivity	Request Information
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Neuroscience
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator that can provide stable incubation conditions up to 37°C±5°C. Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution
Tag Info	qualitative
Protein Description	Indirect
Component	A 96-well Assay plate --The 96-well plate has been pre-coated with AChR. Negative Control (1 x 1ml) --Eliminate false positive Positive Control (1 x 1ml) --Used to evaluate the validity, stability, and comparability of experimental results. Sample Diluent (1x 20 ml) --Dilute the sample to an appropriate concentration. HRP-conjugated anti-human IgG (1 x 10ml)--Bind to the AChRab, and HRP catalyzes the TMB to elicit a chromogenic reaction.

Wash Buffer (25x concentrate) (1 x 20 ml) --Wash away unbound or free substances.
Substrate A (1 x 5 ml) --Mix with substrate B and interact with HRP, eliciting a Chromogenic reaction.
Substrate B (1 x 5 ml) --Mix with substrate A and interact with HRP, eliciting a Chromogenic reaction.
Stop Solution (1 x 5 ml) --Stop the color reaction. The solution color immediately turns from blue to yellow.
Four Adhesive Strips (For 96 wells)--Cover the microplate when incubation.
An Instruction manual

Description

The Human acetylcholine receptor antibody (AChRab) ELISA kit is used for qualitative identification of AChRab in human serum. It employs the qualitative enzyme immunoassay technique. The microtiter plate has been pre-coated with acetylcholine receptor (AChR). Samples or standards are pipetted into the wells with anti-human IgG conjugated HRP. Following a wash to remove any unbound reagent, the TMB substrate solution is added to the wells and color develops in proportion to the amount of AChRab bound in the initial step. The color development is stopped and the intensity of the color is measured by a microplate reader at 450 nm. The AChRab titer in the samples is determined by referring to the negative control. It indicates the presence of ACHRab if the O.D. (optical density) of AChRab is greater than or equal to the cutoff value (2.1× Average O.D. value of negative control). There is no AChRab present in the sample if the O.D. is less than the cut-off value.

This assay has high sensitivity and excellent specificity for detection of AChRab. And it also has been validated with precision less than 15% and lot-to-lot consistency. Get more details from the product instructions.

AChRab is a protein found in 70-90% of patients with generalized acquired myasthenia gravis (MG), a condition that causes weakness of the eyelids and extraocular muscles. It functions by interfering with acetylcholine, which sends signals from nerves to muscles and between nerves in the brain.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<15%
Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision (Precision between assays): CV%<15%
Three samples of known concentration were tested in twenty assays to assess.

Typical

Test parameter	specification	test result
Positive control	≥0.6	0.834
Negative control	≤0.1	0.047
Positive rate	10?Positive	100%
Negative rate	10?Negative	100%