

## HRP Conjugated Anti-Human Apolipoprotein E Antibody [PSH20-19] - Detector

# HA724130H



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	ELISA(Det), ELISA
<b>Clone number:</b>	PSH20-19

**Description:** Apolipoprotein-E (apoE) is a protein component of plasma lipoproteins that mediates the binding, internalization and catabolism of lipoprotein particles. It can serve as a ligand for several lipoprotein receptors, including the LDL (ApoB/E) receptor and the hepatic apoE (chylomicron remnant) receptor. apoE is produced in most organs and occurs in all plasma lipoprotein fractions, constituting 10-20% of VLDL (very low density lipoprotein) and 1-2% of HDL (high density lipoprotein). Three major isoforms of apoE have been described in human (E2, E3 and E4) which differ by only one or two amino acids. Estrogen receptor has been shown to upregulate apoE gene expression via the ER $\alpha$ -mediated pathway, indicating a potential role for apoE in atherosclerosis. This is consistent with studies in mice in which plasma apoE levels were raised, thereby protecting the mice from diet-induced atherosclerosis. apoE has also been shown to be a potent inhibitor of proliferation and thus may play a role in angiogenesis, tumor cell growth and metastasis.

<b>Conjugate:</b>	HRP-conjugated
<b>Immunogen:</b>	Recombinant protein within Human Apolipoprotein E aa 19-317 (HA211078).
<b>Positive control:</b>	Recombinant Human Apolipoprotein E protein (HA211078).
<b>Subcellular location:</b>	Secreted, extracellular space, extracellular matrix, Extracellular vesicle, Endosome, multivesicular body.
<b>Database links:</b>	SwissProt: P02649 Human
<b>Recommended Dilutions:</b>	
<b>ELISA(Det)</b>	Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH20-18] to Human Apolipoprotein E antibody (Capture) (HA724129) or Rabbit monoclonal [PSH20-20] to Human Apolipoprotein E antibody (Capture) (HA724131) and Recombinant Human Apolipoprotein E protein (HA211078) as the standard. The reference range value is 781.25-100,000 pg/mL.
<b>ELISA</b>	Use at an assay dependent concentration.
<b>Storage Buffer:</b>	1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.
<b>Storage Instruction:</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.
<b>Purity:</b>	Protein A affinity purified.

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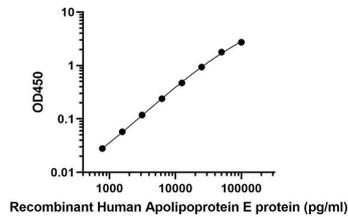
## Images

**Fig1:** Sandwich ELISA analysis of Human Apolipoprotein E matched pair antibodies

Capture: HA724129, Human Apolipoprotein E Rabbit mAb [PSH20-18]

Detector: HA724130, Human Apolipoprotein E Rabbit mAb [PSH20-19]

Standard curve of Human Apolipoprotein E matched pair antibodies



Elisa assay was performed by coating wells of a 96-well plate with 100  $\mu$ l per well of capture antibody (HA724129) diluted in carbonate/bicarbonate buffer, at a concentration of 2  $\mu$ g/mL overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150  $\mu$ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted APOE protein starting from 100,000 pg/ml to 0 pg/ml and detect antibody (HA724130, HRP, 0.2  $\mu$ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Yang LG et al. Apolipoprotein E in lipid metabolism and neurodegenerative disease. Trends Endocrinol Metab. 2023 Aug
2. Saito T et al. Apolipoprotein E-related glomerular disorders. Kidney Int. 2020 Feb

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