TECHNICAL DATA SHEET

APOE MAb

Catalog Number: CSB0031

DESCRIPTION

Target:	APOE
Target aliases:	AD2, LDLCQ5, APO-E, ApoE4, Apo-E, LPG, Apolipoprotein E, Apolipoprotein E3
Fc isotype:	IgG2a
Membrane proteome specificity:	Monospecific for 6,000 membrane proteins tested
Species reactivity:	Human (Others untested)
Extracellular epitope:	Yes
Fc modifications:	C-terminal Avitag[1], disabled Fc-γ receptor binding[2]
Source:	Recombinant CHO expression; purified by Protein A chromatography
Formulation:	Endotoxin Free PBS pH 7.4, sterile-filtered
Concentration:	1 mg/ml

1. A peptide tag that can be biotinylated in vitro using the biotin ligase enzyme (BirA).
2. Mutated Fc-γ receptor binding site to minimize non-specific antibody binding.

APOE TARGET INFORMATION

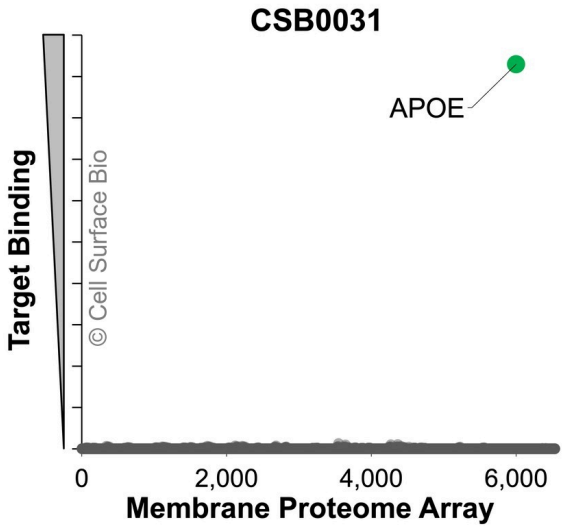
APOE is an apolipoprotein, a protein that associates with lipid particles. APOE is a component of plasma lipoproteins and is involved in lipoprotein-mediated lipid transport between organs via plasma and interstitial fluids. APOE is secreted and binds multiple types of lipoproteins and cellular receptors and is required for the normal catabolism of triglyceride-rich lipoprotein constituents. Mutations in APOE cause familial dysbetalipoproteinemia (type III hyperlipoproteinemia). (NCBI Gene: 348, UniProtKB/Swiss-Prot: P02649) Other names: AD2, LDLCQ5, APO-E, ApoE4, Apo-E, LPG, Apolipoprotein E, Apolipoprotein E3

SHIPPING AND STORAGE

Shipping:	Shipped at ambient temperature. Store at 4°C.
Stability & Storage:	Stable for 12 months from date of receipt when stored at 4°C. Avoid repeated freeze-thaw cycles.

VALIDATION DATA

Membrane Proteome Specificity

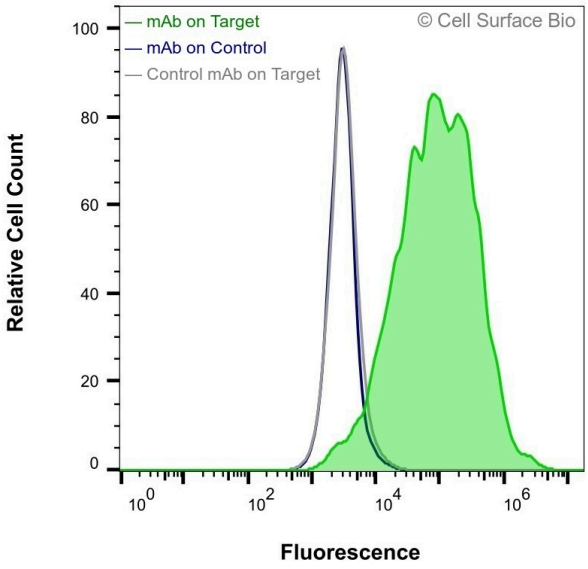


The specificity of APOE Monoclonal Antibody (CSB0031) was tested on the Membrane Proteome Array™ and shown to be specific for APOE.

The Membrane Proteome Array™ contains 6,000 different human membrane proteins, each expressed in unfixed human cells to ensure native conformation and post-translational modifications. The Membrane Proteome Array™ represents the industry standard for determining the binding specificity of antibodies and other protein ligands.

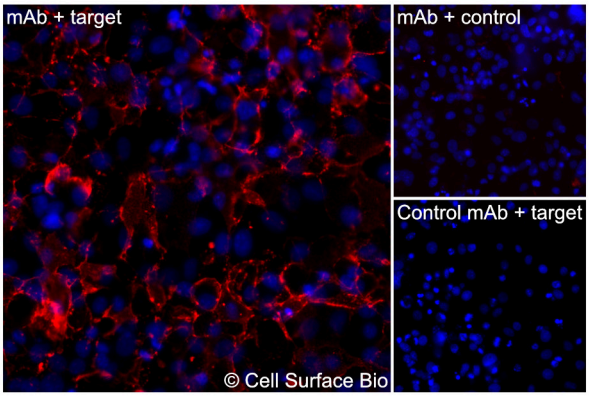
www.cellsurfacebio.com info@cellsurfacebio.com +1 (215) 987-0728

Applications	Conditions	Recommended concentration
Flow Cytometry, Extracellular	Live, Unpermeabilized	1 µg/ml



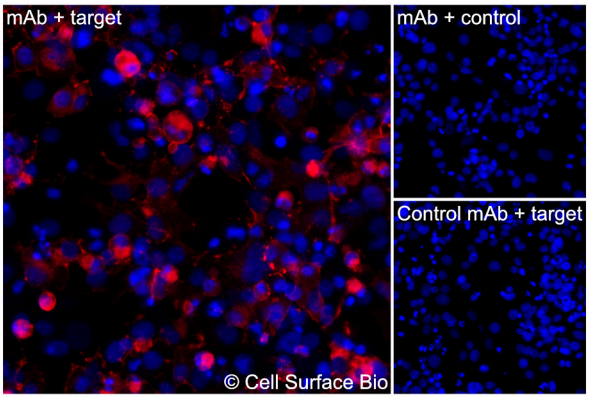
HEK-293F cells transiently transfected with APOE were stained with APOE Monoclonal Antibody (CSB0031) (green) or isotype control antibody (gray), followed by AlexaFluor 647- conjugated anti- IgG secondary antibody. HEK-293F cells transiently transfected with an empty control vector were also stained with APOE Monoclonal Antibody (CSB0031) (blue).

Applications	Conditions	Recommended concentration
Immunofluorescence, Extracellular	Fixed 4% paraformaldehyde	1 µg/ml



(Left) COS-7 cells transiently transfected APOE were stained with APOE Monoclonal Antibody (CSB0031) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with APOE Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with APOE and stained with control MAb.

Applications	Conditions	Recommended concentration
Immunofluorescence, Intracellular	Fixed 4% paraformaldehyde, Permeabilized 0.1% Triton X-100	1 µg/ml



(Left) COS-7 cells transiently transfected APOE were permeabilized and stained with APOE Monoclonal Antibody (CSB0031) followed by AlexaFluor 647 anti- IgG secondary antibody (red) and DAPI (blue). (Top right) COS-7 cells transiently transfected with an empty control vector stained with APOE Monoclonal Antibody. (Bottom right) Isotype control: COS-7 cells transfected with {{target} and stained with control MAb.