

## CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** K74180B **Lot #:** 2D11722  
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**Description:** Goat anti Apo E  
Goat Antibody to Human Apolipoprotein E (Apo E)  
Biotin Conjugated

**Specificity:** Human binds to Apo E.

**Host Animal:** Goat

**Immunogen:** Purified human Apo E from human plasma.

**Format:** Biotin, Lyophilized  
Reconstitute with distilled water. Centrifuge product if not completely clear after standing for 10 minutes at room temperature.

**Purification:** Human Apo E-Sepharose chromatography, then labeled with biotin.

**Concentration:** 1 mg/mL (OD<sub>280nm</sub>, E<sup>0.1%</sup> = 1.35) (prior to lyophilization).

**Buffer:** Lyophilized from 75 mM PBS, pH 7.2 containing 75 mM Sodium Chloride, 0.5 mM EDTA and 10 mg/mL BSA.

**Preservative:** 0.02% Sodium Azide (prior to lyophilization).

**Applications:** Suitable for use in ELISA (1:200–1:20,000) and Western Blot (1:200–1:20,000). Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** Store lyophilized product at 2–8°C. After reconstitution, product is stable for several weeks at 2–8°C as an undiluted liquid. Prepare working dilution only prior to immediate use. For extended storage after reconstitution, we suggest the addition of an equal volume of glycerol to make a final glycerol concentration of 50% followed by storage at -20°C. The concentration of protein and buffer salts will decrease to one-half of the original after the addition of glycerol.

**Safety Note(s):** Refer to the appropriate Safety Data Sheet (SDS) for additional information.

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**References:**

The references listed below are for research purposes only:

1. Wassef, H., et al., (2004), "Synthesis and Secretion of ApoC-I and ApoE during Maturation of Human SW872 Liposarcoma Cells", *J. Nutr.*, 134: 2935-2941.
2. DeMattos, R.B., et al., (1999), "A Test of the Cytosolic Apolipoprotein E Hypothesis Fails to Detect the Escape of Apolipoprotein E from the Endocytic Pathway into the Cytosol and Shows that Direct Expression of Apolipoprotein E in the Cytosol is Cytotoxic", *The Journal of Neuroscience*, **19**(7): 2464-2473.
3. Hasty, A.H., et al., (1999), "Retroviral Gene Therapy in ApoE-Deficient Mice ApoE Expression in the Artery Wall Reduces Early Foam Cell Lesion Formation", *Circulation*, **99**: 2571-2576.
4. Kitchens, R.L., et al., (2003), "Acute inflammation and infection maintain circulating phospholipid levels and enhance lipopolysaccharide binding to plasma lipoproteins", *J. Lipid Res.*, **44**: 2339-2348.
5. Swift, L.L., et al., (2001), "A Recycling Pathway for Resecretion of Internalized Apolipoprotein E in Liver Cells", *The Journal of Biological Chemistry*, **276**(25): 22965-22970.
6. Wilhelmus, M.M.M., (2005), "Apolipoprotein E Genotype Regulates Amyloid-beta Cytotoxicity", *The Journal of Neuroscience*, **25**(14): 3621-3627.
7. Böttcher, A., et al., (2000), "Preparative free-solution isotachopheresis for separation of human plasma lipoproteins: apolipoprotein and lipid composition of HDL subfractions", *J. Lipid Res.*, **41**: 905-915.

Quality Signature:



29 APR 2022

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