Datasheet: MCA5639EL

**Description:** MOUSE ANTI HUMAN APOLIPOPROTEIN E: Low Endotoxin

**Specificity:** APOLIPOPROTEIN E

**Format:** Low Endotoxin

**Product Type:** Monoclonal Antibody

**Clone:** WUE-4

**Isotype:** IgG1

**Quantity:** 0.5 mg

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**Product Details**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

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<th>No</th>
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Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Mouse

Does not react with: Sea Lion, Harbour seal

**N.B.** Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

None present

**Carrier Free**

Yes

**Endotoxin Level**

<0.01EU/ug
Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

Purified ApoHDL fraction.

External Database Links

UniProt: P02649
Related reagents

Entrez Gene: 348 APOE
Related reagents

Fusion Partners

Spleen cells from immunised Balb/c mice were fused with cells of the Sp2/O-Ag14 mouse myeloma cell line.

Specificity

Mouse anti Human Apolipoprotein E antibody, clone WUE-4 recognizes an epitope within amino acids 140-160 of human apolipoprotein E (Apo-E), a major component of very low-density lipoproteins (VLDLs). Apo-E is the principle apolipoprotein in the central nervous system, and is secreted by most organs into the plasma, playing a vital role in the binding, internalization and catabolism of triglyceride-rich lipoprotein constituents.

Apo-E acts as a ligand for both the specific apo-E receptor (chylomicron remnant) of hepatic tissues, and the apoB,E (LDL) receptor. Three isoforms of Apo-E have been identified, ApoE2, E3 and E4, and have been linked with various disorders. ApoE2 has been shown to bind LPL receptors with low affinity, resulting in increased plasma cholesterol and triglyceride levels, and thereby an increased risk in cardiovascular disorders. ApoE4 is a known high risk factor for Alzheimer's disease, and in particular late onset Alzheimer disease 2 (AD2), whilst ApoE3 is the most common isoform, and considered the normal/natural Apo-E genotype.

Mouse anti Human Apolipoprotein E antibody, clone WUE-4 has been shown to inhibit Apo-E mediated binding of lipoproteins to the apoB,E cell receptor (Krul et al. 1998).

Western Blotting

MCA5639EL detects a major band of approximately 34-36kDa in human liver cell lysates.

References


**Storage**

Store at -20°C only.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life**

18 months from date of despatch.

**Health And Safety Information**

Material Safety Datasheet documentation #10162 available at:


**Regulatory**

For research purposes only

**Recommended Products**

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG (STAR76...)  
Goat Anti Mouse IgG, IgA, IgM (STAR87...)  
Goat Anti Mouse IgG (H/L) (STAR117...)  
Rabbit Anti Mouse IgG (STAR9...)  
Goat Anti Mouse IgG (STAR77...)  
Rabbit Anti Mouse IgG (STAR12...)  
Goat Anti Mouse IgG (Fc) (STAR120...)  
Rabbit Anti Mouse IgG (STAR8...)  
Goat Anti Mouse IgG (STAR70...)  
Rabbit Anti Mouse IgG (STAR13...)  
Human Anti Mouse IgG1 (HCA036...)  

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin (MCA928EL)**