

## Product datasheet for **TA420154**

### APOE Mouse Monoclonal Antibody [Clone ID: WUE-4]

#### Product data:

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	WUE-4
<b>Applications:</b>	ELISA, WB
<b>Reactivity:</b>	Mouse
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Purified ApoHDL fraction.
<b>Specificity:</b>	APOLIPOPROTEIN E
<b>Formulation:</b>	Phosphate buffered saline containing 0.09% Sodium Azide (NaN <sub>3</sub> ) <b>Label:</b> Biotin,HRP,Low Endotoxin,Purified <b>State:</b> Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant Purified IgG - liquid
<b>Concentration:</b>	lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	+4°C, -20°C if preferred
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	apolipoprotein E
<b>Database Link:</b>	<a href="#">P02649</a>



**Background:**

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 high risk factor for Alzheimers disease (Sanan et al. 1994), 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).

**Synonyms:**

AD2; Apo-E; DLCQ5; LPG; MGC1571