

Angptl2

Recombinant Mouse Angiopoietin-related Protein 2 (Fc Tag)

Catalog No.	CRM585A-Fc CRM585B-Fc	Quantity:	10 µg 20 µg
Alternate Names:	Angiopoietin-related protein 2, Angiopoietin-like protein 2		
Description:	The angiopoietin-related protein (ANGPTL) family is homologous to angiopoietins but does not bind to the Tie2 receptor. The function of ANGPTLs has been elucidated largely in the context of angiogenesis and lipid metabolism. Angiopoietin-related protein 2 (ANGPTL2) maintains tissue homeostasis by inducing inflammation and angiogenesis. It is produced in infiltrating immune cells or resident cells, such as adipocytes, vascular endothelial cells, and tumor cells. The classic sequential cascade of <i>P. gingivalis</i> LPS leading to inflammatory cytokine induction is well established. ANGPTL2 functions in the pathogenesis of periodontitis and contributes to prolonging chronic inflammation in patients with systemic disease. That MAC-3-positive immune cells, including infiltrating bone marrow-derived macrophages and activated microglia, express abundant angiopoietin-like protein (ANGPTL) 2 in ischemic mouse brain in a transient middle cerebral artery occlusion (MCAO) model. Both neurological deficits and infarct volume decreased in transient MCAO model mice established in Angptl2 knockout (KO) relative to wild-type mice. Acute brain inflammation after ischemia-reperfusion, as estimated by expression levels of pro-inflammatory cytokines such as interleukin (IL)-1 β and tumor necrosis factor alpha (TNF)- α , was significantly suppressed in Angptl2 KO compared to control mice.		
UniProt ID:	Q9R045		
Protein Construction:	A DNA sequence encoding the mouse ANGPTL2 (Asp245-His493) was expressed with the Fc region of human IgG1 at the N-terminus.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rmANGPTL2/Fc is a disulfide-linked homodimer. The reduced monomer consists of 509 aa with a predicted MW of 57.5 kDa and migrates at ~58 kDa in SDS-PAGE under reducing conditions, due to glycosylation.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Testing in progress		
Predicted N-terminal:	Glu		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



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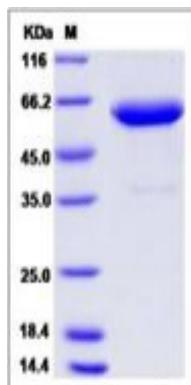
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Website: www.cellsciences.com

Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

SDS-PAGE



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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