

Cynomolgus MFAP4 Protein

Cat. No. MAP-CM104

Description

Source	Recombinant Cynomolgus MFAP4 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Val60-Ala293.
Accession	A0A2K5TQS8
Molecular Weight	The protein has a predicted MW of 27.60 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Microfibril-associated glycoprotein 4 (MFAP4) is an extracellular matrix protein belonging to the fibrinogen-related protein superfamily. MFAP4 is produced by vascular smooth muscle cells and is highly enriched in the blood vessels of the heart and lung, where it is thought to contribute to the structure and function of elastic fibers. Genetic studies in humans have implicated MFAP4 in the pathogenesis of Smith-Magenis syndrome, in which patients present with multiple congenital abnormalities and mental retardation, as well as in the severe cardiac malformation left-sided congenital heart disease.

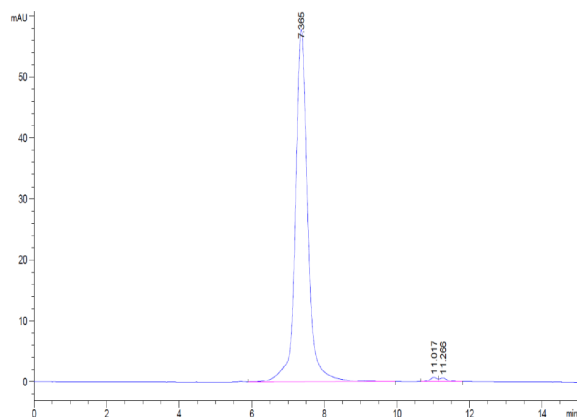
Assay Data

Bis-Tris PAGE



Cynomolgus MFAP4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



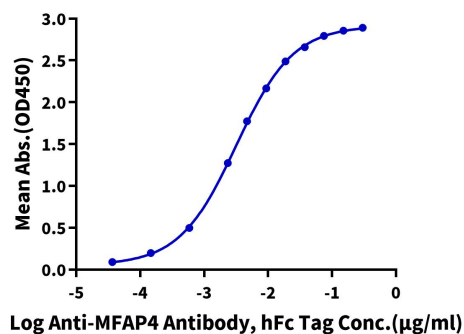
The purity of Cynomolgus MFAP4 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Cynomolgus MFAP4, His Tag ELISA

0.2µg Cynomolgus MFAP4, His Tag Per Well



Immobilized Cynomolgus MFAP4, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-MFAP4 Antibody, hFc Tag with the EC50 of 3.2ng/ml determined by ELISA.