

Human Periostin/OSF-2 Protein

Cat. No. OSF-HM202



Description

Source	Recombinant Human Periostin/OSF-2 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-terminus. It contains Asn22-Gln836.
Accession	Q15063
Molecular Weight	The protein has a predicted MW of 116.90 kDa. Due to glycosylation, the protein migrates to 120-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE

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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 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

Periostin is a matricellular protein that is expressed in several tissues during embryonic development; however, its expression in adults is mostly restricted to collagen-rich connective tissues. Periostin is expressed only briefly during kidney development, but it is not normally detected in the adult kidney. Recent evidence has revealed that periostin is aberrantly expressed in several forms of chronic kidney disease (CKD), and that its expression correlates with the degree of interstitial fibrosis and the decline in renal function.

Assay Data

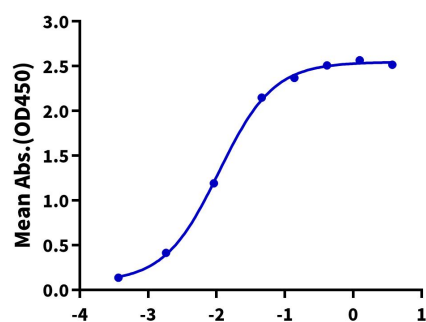
Bis-Tris PAGE



Human Periostin on Bis-Tris PAGE under reduced condition. The purity is greater than 90%.

ELISA Data

Human Periostin, hFc Tag ELISA
0.1µg Human Periostin, hFc Tag Per Well



Immobilized Human Periostin, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-Periostin Antibody, hFc-Avi Tag with the EC50 of 10.8ng/ml determined by ELISA.