Datasheet for ABIN1344268

Periostin Protein (POSTN) (AA 24-783) (DYKDDDDK Tag)

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Overview

Quantity:	10 µg
Target:	Periostin (POSTN)
Protein Characteristics:	AA 24-783
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Periostin protein is labelled with DYKDDDDK Tag.
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Periostin (mouse) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	Mouse periostin (aa 24-783) (isoform 5) is fused at the C-terminus to a FLAG®-tag.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.1EU/µg purified protein (LAL test).
Biological Activity Comment:	Rescues sphere formation from periostin KO primary tumor cells at 50ng/ml.

Target Details

Target:	Periostin (POSTN)

Target Details

Alternative Name:	Periostin (POSTN Products)
Background:	Osteoblast-specific Factor 2, OSF-2, Postn Periostin is a 90- kDa matricellular protein that consists of a typical signal sequence, followed by a cysteine-rich region, an EMI domain (protein-protein interactions), four tandem fasciclin-like domains that are responsible for integrin binding, and a C-terminal region. Periostin was originally isolated as an osteoblast-specific factor that functions as a cell adhesion molecule for pre-osteoblasts and in osteoblast recruitment, attachment and spreading. Periostin is also involved in many fundamental biological processes such as cell proliferation, cell invasion and angiogenesis. Periostin expression is increased by both transforming growth factor beta1 (TGF-beta1) and bone morphogenetic protein 2 (BMP-2). Changes in periostin expression are commonly detected in various cancers and pre-cancerous conditions, and periostin may be involved in regulating cancer cell activities that contribute to tumorigenesis, cancer progression and metastasis. Periostin has shown to be involved in many aspects of allergic inflammation, such as eosinophil recruitment, airway remodeling, development of a Th2 phenotype and increased expression of inflammatory mediators. It is evaluated as a biomarker for bronchial asthma and airway inflammation.
Molecular Weight:	~85kDa
UniProt:	Q62009

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with 100 µL sterile water.
Concentration:	0.1 mg/mL
Buffer:	Contains PBS.
Handling Advice:	After reconstitution, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution. PBS containing at least 0.1 % BSA should be used for further dilutions.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Expiry Date:	6 months