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Datasheet for ABIN1344268

Periostin Protein (POSTN) (AA 24-783, Isoform 5) (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Target:	Periostin (POSTN)
Protein Characteristics:	Isoform 5, 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

Cross-Reactivity:	Mouse (Murine)
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, Lonza).

Target Details

Target:	Periostin (POSTN)
Alternative Name:	Periostin (POSTN Products)
Background:	Periostin is a 90- kDa matricellular protein that consists of a typical signal sequence, followed

Target Details

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
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UniProt:	Q62009
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Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
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Comment:	Rescues sphere formation from periostin KO primary tumor cells at 50ng/ml.
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	Reconstitute with 100 µL sterile water.
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Concentration:	Lot specific
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Buffer:	Lyophilized. Contains PBS.
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Storage:	4 °C,-20 °C
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Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Stable for at least 6 months after receipt when stored at -20°C.
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Expiry Date:	6 months
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