



Rabbit Anti-Human OPN-R monoclonal antibody, clone 35I6M4 (CABT-L1507)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is predicted to react with Monkey, Rabbit and Bat.
Target	OPN
Immunogen	Peptide corresponding to Human SPP1 (aa 158-165)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	35I6M4
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	FC, ICC, IF, WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.2
Preservative	0.09% Sodium Azide
Storage	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

BACKGROUND

Introduction

Osteopontin is a 34kDa extracellular matrix protein with a cell binding domain. It was originally identified as a major component of the non-collagenous organic bone matrix, however, it has subsequently been demonstrated in a wide range of normal adult tissue and body fluids. It is a multifunctional protein involved in bone mineralization, cell adhesion, cell migration, chronic inflammatory disease and transformation. Proteolytic cleavage by thrombin and matrix metalloproteinases close to the integrin-binding Arg-Gly-Asp sequence modulates the function of OPN and its integrin binding properties. Thrombin-cleaved fragments of Osteopontin are overexpressed in malignant glial tumors and provide a molecular niche with survival advantage and provide a novel substrate for plasmin and cathepsin D.

Keywords

BNSP;Bone sialoprotein 1;BSP I;BSPI;Early T lymphocyte activation 1;ETA 1;ETA1;MGC110940;Nephropontin;OPN

GENE INFORMATION

Entrez Gene ID

[6696](#)