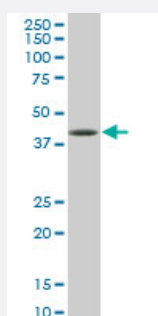


SPP1 monoclonal antibody (M10), clone 4F2

Catalog # H00006696-M10

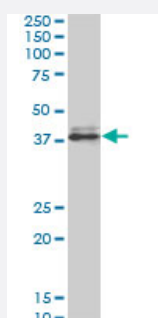
Size 100 ug

Applications



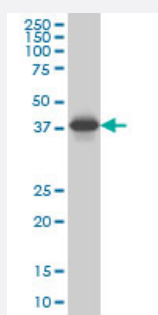
Western Blot (Tissue lysate)

SPP1 monoclonal antibody (M10), clone 4F2. Western Blot analysis of SPP1 expression in human stomach.



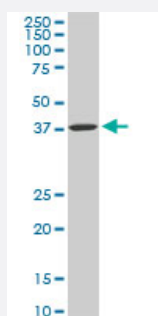
Western Blot (Cell lysate)

SPP1 monoclonal antibody (M10), clone 4F2. Western Blot analysis of SPP1 expression in COLO 320 HSR (Cat # L020V1).



Western Blot (Cell lysate)

SPP1 monoclonal antibody (M10), clone 4F2 Western Blot analysis of SPP1 expression in Hela S3 NE (Cat # L013V3).

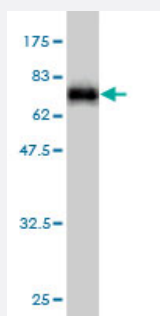
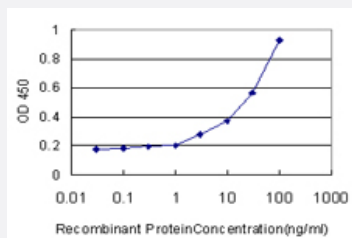


Western Blot (Cell lysate)

SPP1 monoclonal antibody (M10), clone 4F2. Western Blot analysis of SPP1 expression in NIH/3T3(Cat # L018V1).

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SPP1 is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (58.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant SPP1.
Immunogen	SPP1 (AAH07016.1, 1 a.a. ~ 300 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPDAVATWLNPDPSQKQNLLAPQTLPSKSNE SHDHMDMDDEDDDDHVDSDQSDSNDSDDDVDDTDSSHQSDSHHSDSEDELVTDFPTDLP ATEVFTPVVPTVDTYDGRGDSVVYGLRSKSKKFRRPDIQYPDATDEDITSHMESEELNGAYKAIPV AQDLNAPSDWDSRGKDSYETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDSQELSKVS REFHSHEFHSHEDMLVDPKSKEEDKHLKFRISHELESASSEVN
Host	Mouse
Reactivity	Human, Mouse
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (58.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

SPP1 monoclonal antibody (M10), clone 4F2. Western Blot analysis of SPP1 expression in human stomach.

[Protocol Download](#)

- Western Blot (Cell lysate)

SPP1 monoclonal antibody (M10), clone 4F2. Western Blot analysis of SPP1 expression in COLO 320 HSR (Cat # L020V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

SPP1 monoclonal antibody (M10), clone 4F2 Western Blot analysis of SPP1 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Cell lysate)

SPP1 monoclonal antibody (M10), clone 4F2. Western Blot analysis of SPP1 expression in NIH/3T3(Cat # L018V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SPP1 is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — SPP1

Entrez GeneID	6696
GeneBank Accession#	BC007016
Protein Accession#	AAH07016.1
Gene Name	SPP1

Gene Alias	BNSP, BSPI, ETA-1, MGC110940, OPN
Gene Description	secreted phosphoprotein 1
Omim ID	166490
Gene Ontology	Hyperlink
Gene Summary	bone sialoprotein I
Other Designations	SPP1/CALPHA1 fusion bone sialoprotein I early T-lymphocyte activation 1 osteopontin osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1)

Publication Reference

- [Muramyl Dipeptide, a Shared Structural Motif of Peptidoglycans, Is a Novel Inducer of Bone Formation through Induction of Runx2.](#)

Park OJ, Kim J, Yang J, Yun CH, Han SH.

Journal of Bone and Mineral Research 2017 Jul; 32(7):1455.

Application: WB-Ce, Mouse, MC3T3-E1 cells

Pathway

- [ECM-receptor interaction](#)
- [Focal adhesion](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Aortic Aneurysm](#)
- [Arthritis](#)

- [Asthma](#)
- [Atherosclerosis](#)
- [Brain Infarction](#)
- [Brain Ischemia](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cerebrovascular Disorders](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Coronary Artery Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hypersensitivity](#)

- [Hypertension](#)
- [Inflammation](#)
- [Kidney Calculi](#)
- [Kidney Failure](#)
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- [Liver Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
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- [Neoplasms](#)
- [Nephrolithiasis](#)
- [Osteoporosis](#)
- [Ovarian Neoplasms](#)
- [Periodontitis](#)
- [Pseudoxanthoma Elasticum](#)
- [Sarcoidosis](#)
- [Stroke](#)
- [Urinary Calculi](#)
- [Urolithiasis](#)