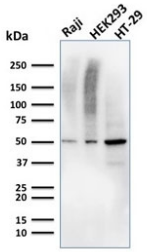
MMP3 Antibody [clone MMP3/2655] (V7437)

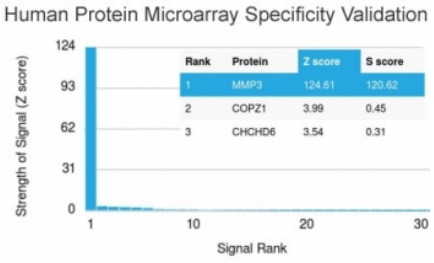
Catalog No.	Formulation	Size
V7437-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7437-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7437SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MMP3/2655
Purity	Protein G affinity chromatography
UniProt	P08254
Localization	Cytoplasmic, secreted
Applications	ELISA (order BSA/sodium Azide-free Format For Coating) : Western Blot : 1-2ug/ml
Limitations	This MMP3 antibody is available for research use only.



Western blot testing of human Raji, HEK293, and HT-29 cell lysate with MMP3 antibody. Predicted molecular weight ~54 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using MMP3 antibody. These results demonstrate the foremost specificity of the MMP3/2655 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP3, MMP10 and MMP11 (also designated stromelysin-1, 2 and 3, respectively) activate procollagenase. MMP3 activation of procollagenase can occur via two pathways. Direct activation by MMP3 is slow and activation by MMP3 in conjunction with tissue or plasma proteinases is rapid. MMP10 is expressed in small intestine, and at lower levels in lung and heart. MMP11 is specifically expressed in stromal cells of breast carcinomas and contributes to epithelial cell malignancies.

Application Notes

Optimal dilution of the MMP3 antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A portion of amino acids 236-363 was used as the immunogen for the MMP3 antibody.

Storage

Store the MMP3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).