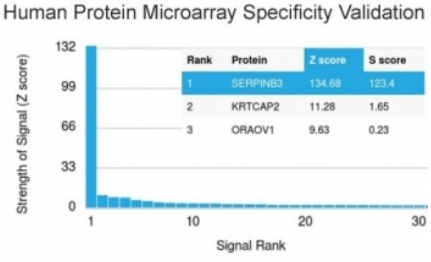
SERPINB3 Antibody / SCCA-1 [clone CPTC-SERPINB3-2] (V7494)

Catalog No.	Formulation	Size
V7494-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7494-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7494SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

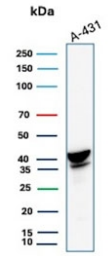
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CPTC-SERPINB3-2
Purity	Protein G affinity chromatography
UniProt	P29508
Localization	Cytoplasmic
Applications	Western blot: 2-4ug/ml
Limitations	This SERPINB3 antibody is available for research use only.

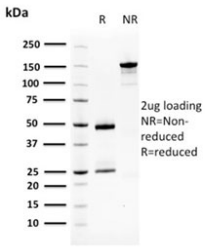


Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using SERPINB3 antibody. These results demonstrate the foremost specificity of the CPTC-SERPINB3-2 mAb.

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.



Western blot testing of human A431 cell lysate with SERPINB3 antibody. Predicted molecular weight ~46/39 kDa (two isoforms).



SDS-PAGE analysis of purified, BSA-free SERPINB3 antibody (clone CPTC-SERPINB3-2) as confirmation of integrity and purity.

Description

Metastasis of a primary tumor to a distant site is determined through signaling cascades that break down interactions between the cell and extracellular matrix proteins. Among the proteins mediating metastasis are serine proteases, such as neutrophil elastase. Serpins are family of serine protease inhibitors, contain a stretch of peptide that mimics a true substrate for a corresponding serine protease. Serine proteases bind to this substrate mimic in a 1:1 stoichiometric fashion and become catalytically inactive. Aberrant expression of serpin family members can contribute to a number of conditions, including emphysema (-1 antitrypsin deficiency), fatal bleeding (elastase to Thrombin specificity) and thrombosis (antithrombin deficiency), and are indicators of cancer stage phenotypes (circulating levels of 'squamous cell carcinoma antigen', known as SCCA1 and SERPINB3, increase in advancing stages of some cervical, lung, esophageal and head and neck cancers). SCCA1/SERPINB3 expression has been demonstrated to promote oncogenic transformation and epithelial-mesenchymal transition (EMT) in mammary epithelial cells, and its silencing in breast cancer cells has been shown to halt their proliferation.

Application Notes

Optimal dilution of the SERPINB3 antibody should be determined by the researcher.

Immunogen

Recombinant human protein was used as the immunogen for this SERPINB3 antibody.

Storage

Store the SERPINB3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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