Datasheet for ABIN6940565

anti-SERPINB3 antibody

2 Images

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Overview

Quantity:	100 µg
Target:	SERPINB3
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SERPINB3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant human full-length SERPINB3 protein
Clone:	CPTC-SERPINB3-2
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	SERPINB3
Alternative Name:	SERPINB3 (SERPINB3 Products)
Background:	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

Target Details

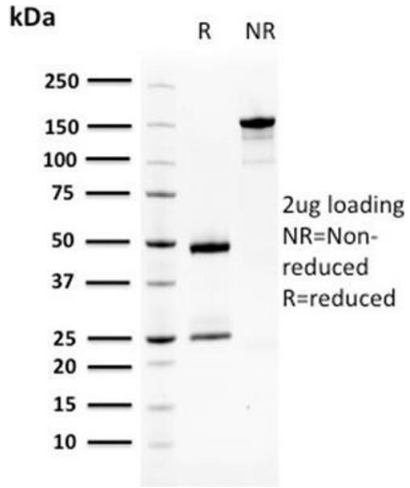
	corresponding serine protease. Serine proteases bind to this substrate mimic in a 1:1 stoichiometric fashion and become catalytically inactive. Aberrant expression of serpin family members can contribute to a number of conditions, including emphysema (-1 antitrypsin deficiency), fatal bleeding (elastase to Thrombin specificity) and thrombosis (antithrombin deficiency), and are indicators of cancer stage phenotypes (circulating levels of squamous cell carcinoma antigen, known as SCCA1, increase in advancing stages of some cervical, lung, esophageal and head and neck cancers). SCCA1 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.
Molecular Weight:	39kDa
Gene ID:	6317
UniProt:	P29508

Application Details

Application Notes:	Positive Control: U-2197, HaCaT, Squamous cells. Expressed in some hepatocellular carcinoma. Known Application: Western Blot (0.5-1.0 µg/mL), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

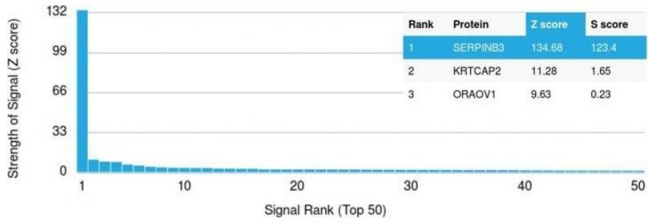
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified SqCC Antigen 1 Mouse Monoclonal Antibody (CPTC-SERPINB3-2). Confirmation of Purity and Integrity of Antibody



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using SqCC Antigen 1 Mouse Monoclonal Antibody (CPTC-SERPINB3-2). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.