

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Serpin B3/SCCA1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 886524
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Serpin B3/SCCA1 Asn2-Pro390 Accession # P29508
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Serpin B3, also known as Squamous Cell Carcinoma Antigen-1 (SCCA1), is a member of the serpin superfamily of serine protease inhibitors (1). Serpins primarily inhibit serine proteases and some are known to inhibit caspases and papain-like cysteine proteases (1). Serpin B3 belongs to the subgroup ovalbumin-related serpins which are involved in the regulation of apoptosis, inflammation, angiogenesis and embryogenesis (2). Serpin B3 was initially isolated from human cervical squamous cell tissue. It is a tumor marker for squamous cell carcinomas in various areas including the cervix, head, neck and lung (3). Unlike typical serpins, Serpin B3 shows inhibitory activity against papain-like lysosomal cysteine proteases Cathepsin K, L, and S, while lacking inhibitory activity against serine proteases (4).

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