

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Caveolin-3 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 682708
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Caveolin-3 Met1-Pro83 Accession # P56539
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Caveolin-3 is an 18 kDa member of the Caveolin family of proteins which are major protein components of plasma membrane caveolae. It is preferentially expressed in muscle cells where it regulates the localization and activity of potassium channels and the nicotinic acetylcholine receptor. Caveolin-3 mutations are associated with several skeletal muscle defects. It contains a central membrane-embedded sequence (aa 84-104) flanked by two cytoplasmic domains (aa 1-83 and 105-151). Over aa 1-83, human Caveolin-3 shares 94% aa identity with mouse and rat Caveolin-3.

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