

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Phospho-Caveolin-1 (Y14) in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 750304
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human Caveolin-1 Y14 site Accession # Q03135
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.
Immunocytochemistry	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-1 is a palmitoylated 22 kDa membrane-associated protein in caveolae, the cholesterol-rich invaginations in the plasma membrane involved in vesicular transport and regulation of lipid rafts. Caveolin-1 expression is dysregulated during cancer progression and exhibits both positive and negative effects on tumor progression. The central region of Caveolin-1 (aa 105-125) is buried in the lipid layer, while the N- and C-terminal flanking regions are exposed to the cytoplasm and interact with many other proteins. Within these cytoplasmic regions, human Caveolin-1 shares 95% aa sequence identity with mouse and rat Caveolin-1. Alternate splicing in human, mouse and rat generates an isoform with a deletion of the N-terminal 31 residues.

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