

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Designed to visualize the expression of Caveolin-1 by fluorescence microscopy for staining cells and tissues. Conjugated Caveolin-1 antibodies are ideal for immunocytochemistry colocalization studies in caveolae. Detects endogenous human, mouse and rat Caveolin-1 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 7C8
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Purified rat adipocyte low density microsomes Accession # P41350
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

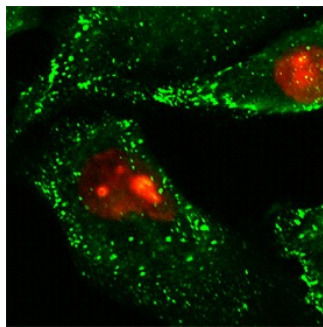
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	1:10 dilution	See Below

DATA

Immunocytochemistry



Caveolin-1 in HeLa Human Cell Line.
Caveolin-1 was detected in formaldehyde fixed HeLa human cervical epithelial carcinoma cell line using Mouse Anti-Human/Mouse/Rat Caveolin-1 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # IC5736G) at 1:10 dilution overnight at 4° C and counterstained with Propidium Iodide (red). Specific staining was localized to caveolae. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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. <ul style="list-style-type: none"> ● 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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