OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM09383PU-S

Caveolin 1 (CAV1) (1-104) Mouse Monoclonal Antibody [Clone ID: AT4C1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT4C1
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	**ELISA** (starting dilution is 1:500). **Western blot** (1:250 - 1:1000, starting dilution is 1:500). **Immunohistochemistry / Immunoflourescence**. **Flow cytometry.**
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human CAV1 (1-104aa) purified from *E. coli*
Specificity:	The antibody recognizes caveolin-1 at aa 1-104.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	caveolin 1
Database Link:	Entrez Gene 25404 RatEntrez Gene 857 Human Q03135

View online »

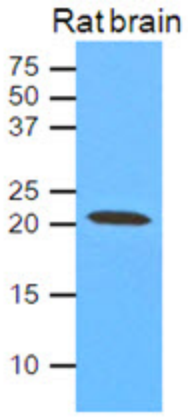
Background: The identification of caveolin-1 (CAV1) as the main structural component of caveolae, together with the finding that CAV1 might serve as a molecular organizer for membrane multiprotein complexes involved in cellular traffic, endo-and transcytosis, cell adhesion and signal transduction prompted a new impulse in the research on these intracellular organells. One of the properties of CAV1 was its insolubility in cold non-ionic detergents together with apical markers in epithelial cell. Also, cholesterol is essential for caveolae formation and maintenance, and caveolae structure is highly sensitive to cholesterol depletion or treatment with cholesterol binding drugs. CAV1 tightly and specifically binds free cholesterol and artificial cholesterol containing vesicles.

Synonyms: CAV1

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Focal adhesion, Viral myocarditis

Product images:



Rat brain lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CAV1 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.