

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Vinculin in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 728526
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Vinculin Lys1020-Gln1134 Accession # P18206
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

VCL (vinculin) is a 117 kDa actin binding cytoskeletal phosphoprotein found in adherens-type cell-cell and cell-matrix junctions. The 1066 amino acid (aa) human vinculin contains an N-terminal globular head (aa 2-835) with a talin interaction domain (aa 168-208) and three tandem repeats (aa 259-589), a pro-rich linker region (aa 826-878), and a C-terminal tail that facilitates phospholipid membrane insertion (aa 1003-1134). An 1134 aa form termed metavinculin contains 68 aa inserted after aa 915 and mainly occurs in cardiac, skeletal and smooth muscle. Human, mouse and rat vinculin share 100% aa sequence identity within the region used as an immunogen.

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