ARG11100
anti-Vimentin antibody [SQab1859] (FITC)

Package: 500 µl
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [SQab1859] recognizes Vimentin
Tested Reactivity	Hu, Ms, Rat, Chk, Dog, Hm, Mk, Pig, Xenopus, Zfsh
Tested Application	FACS, ICC/IF, IHC-Fr, WB
Specificity	This antibody reacts exclusively with vimentin, which is expressed in mesenchymal cells and mesenchyme derived tumors e.g. lymphoma, sarcoma and melanoma.
Host	Mouse
Clonality	Monoclonal
Clone	SQab1859
Isotype	IgG1
Target Name	Vimentin
Species	Bovine
Immunogen	A cytoskeletal vimentin extract of calf lens.
Conjugation	FITC
Alternate Names	Vimentin; CTRCT30; HEL113

Application Instructions

Application table

Application	Dilution
FACS	1:10
ICC/IF	1:10
IHC-Fr	1:10
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

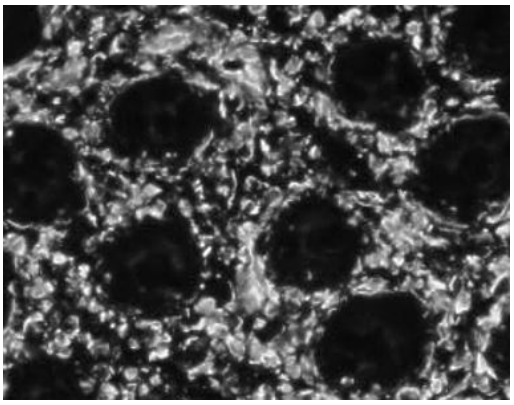
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.09% Sodium azide and 0.1% BSA.
Preservative	0.09% Sodium azide
Stabilizer	0.1% BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

	gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	VIM
Gene Full Name	vimentin
Background	This gene encodes a type III intermediate filament protein. Intermediate filaments, along with microtubules and actin microfilaments, make up the cytoskeleton. The encoded protein is responsible for maintaining cell shape and integrity of the cytoplasm, and stabilizing cytoskeletal interactions. This protein is involved in neuritogenesis and cholesterol transport and functions as an organizer of a number of other critical proteins involved in cell attachment, migration, and signaling. Bacterial and viral pathogens have been shown to attach to this protein on the host cell surface. Mutations in this gene are associated with congenital cataracts in human patients. [provided by RefSeq, Aug 2017]
Function	Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2. [UniProt]
Highlight	Related products: Vimentin antibodies; Vimentin Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: New antibody panels for Myofibroblasts and CAFs
Calculated Mw	54 kDa
PTM	Filament disassembly during mitosis is promoted by phosphorylation at Ser-55 as well as by nestin (By similarity). One of the most prominent phosphoproteins in various cells of mesenchymal origin. Phosphorylation is enhanced during cell division, at which time vimentin filaments are significantly reorganized. Phosphorylation by PKN1 inhibits the formation of filaments. Phosphorylated at Ser-56 by CDK5 during neutrophil secretion in the cytoplasm. Phosphorylated by STK33. O-glycosylated during cytokinesis at sites identical or close to phosphorylation sites, this interferes with the phosphorylation status. S-nitrosylation is induced by interferon-gamma and oxidatively-modified low-densitity lipoprotein (LDL(ox)) possibly implicating the iNOS-S100A8/9 transnitrosylase complex. [UniProt]
Cellular Localization	Cytoplasm. Cytoplasm, cytoskeleton. Nucleus matrix. [UniProt]

Images



ARG11100 anti-Vimentin antibody [SQab1859] (FITC) IHC-Fr image

Immunofluorescence: Frozen section of Human colon tissue stained with ARG11100 anti-Vimentin antibody [SQab1859] (FITC).

Note reactivity in connective tissue while epithelial cells remain negative.