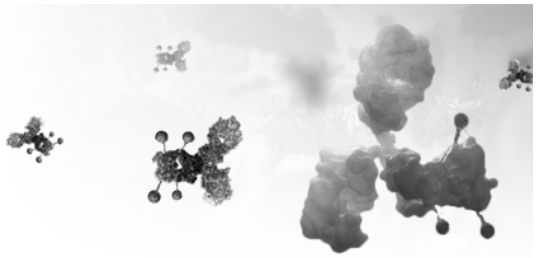

Rabbit Anti-Human VIM Monoclonal Antibody, clone CQ7121 (CABT-Z189R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to Vimentin residues within aa366-466 of Vimentin was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7121
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	54 kDa
Cellular Localization	Cytoplasm
Positive Control	Colon
Format	Liquid
Concentration	Lot specific
Size	100 µl

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Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
Preservative	0.01% Sodium azide
Storage	Store at -20 °C. Avoid freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Vimentin is the most common member of intermediate filament (IF) family and one of the main components in cytoskeleton structure. It is essential in the role of cell integrity and cytoskeletal stability. The reorganization of vimentin, similar to all IF proteins, occurs during different stages of the cell cycle and cell signaling by a site-specific phosphorylation (serine and threonine residues). Vimentin is expressed in a wide variety of mesenchymal cell types: fibroblasts, endothelial cells etc., and in a number of other cell types derived from mesoderm, e.g., mesothelium and ovarian granulosa cells. However, in non-vascular smooth muscle cells, vimentin is often replaced by desmin. In striated muscle, vimetin is also replaced by desmin. However, during regeneration, vimentin is reexpressed. Cells of the lymfo-haemopoietic system (lymphocytes, macrophages etc.) also express vimentin, sometimes in scarce amounts. In tumor tissues, it is present in many different neoplasms but is particulary expressed in those originated from mesenchymal cells. In combination with a panel of antibodies, it is used to identify tumor with mesenchymal origin and malignant melanoma. Additionally, vimentin is a useful control marker for proper tissue processing.
Keywords	VIM; vimentin; HEL113; CTRCT30; epididymis luminal protein 113

GENE INFORMATION

Gene Name	VIM
Entrez Gene ID	7431
UniProt ID	P08670

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