



Rabbit Anti-Human MYH11 Monoclonal Antibody, clone CQ7102 (CABT-Z256R)

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

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to Myosin (Smooth Muscle) residues within aa1-100 of Myosin (Smooth Muscle) was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7102
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	227 kDa
Cellular Localization	Cytoplasm
Positive Control	Liomyoma Tissue
Format	Liquid
Concentration	Lot specific
Size	100 µl

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	Smooth Muscle Myosin, heavy chain (SMM-HC) is a cytoplasmic structural protein that is a major component of the contractile apparatus of the smooth muscle cells. Expression of smooth muscle myosin is developmentally regulated, appearing early and is specific for smooth muscle development. SM-MHC stains the intact myoepithelial cell (MEC) layers present in benign and <i>in situ</i> malignant breast and bronchioloalveolar lesions and is therefore very helpful in distinguishing between benign and malignant tumors. The antibody reacts with smooth muscle cells and myoepithelial cells, but not with myofibroblasts. It is very helpful in distinguishing between benign sclerosing breast lesions and infiltrating carcinomas in difficult cases since it strongly stains the myoepithelial layer in the benign lesions while it is negative in the infiltrating carcinomas.
Keywords	MYH11; myosin, heavy chain 11, smooth muscle; AAT4; FAA4; SMHC; SMMHC; myosin-11; myosin heavy chain 11; myosin heavy chain, smooth muscle isoform; myosin, heavy polypeptide 11, smooth muscle

GENE INFORMATION

Gene Name	MYH11
Entrez Gene ID	4629
UniProt ID	P35749