Data Sheet (Cat.No.TMAC-03809)

Anti-smooth muscle Myosin heavy chain 11 Antibody (7J784)

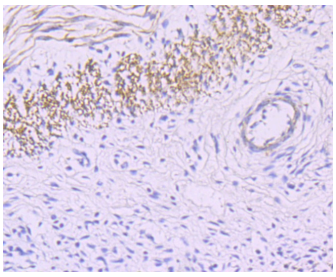
Product Details

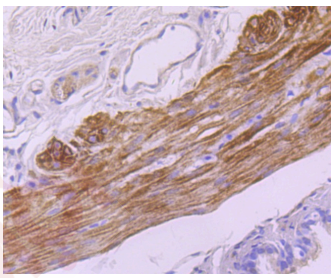
Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 227 kDa.
Clone:	7J784
Purification:	ProA affinity purified

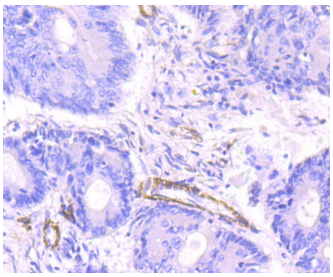
Applications

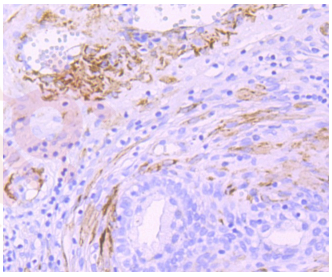
Verified Activity:

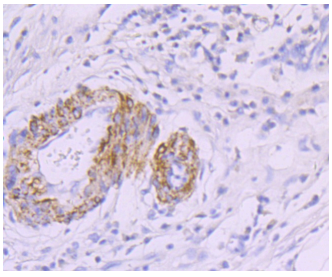
1. Immunohistochemical analysis of paraffin-embedded human jejunum tissue using anti-smooth muscle Myosin heavy chain 11 antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded rat trachea tissue using anti-smooth muscle Myosin heavy chain 11 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-smooth muscle Myosin heavy chain 11 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human prostate tissue using anti-smooth muscle Myosin heavy chain 11 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using anti-smooth muscle Myosin heavy chain 11 antibody. Counter stained with hematoxylin.
6. ICC staining smooth muscle Myosin heavy chain 11 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining smooth muscle Myosin heavy chain 11 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

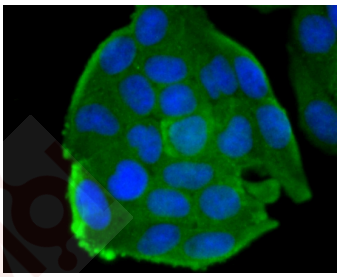


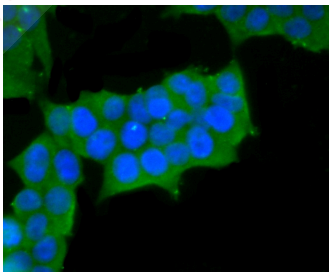












Application:	ICC/IF,IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P35749
Synonyms:	Myosin 11;Myosin heavy chain 11;Myosin heavy chain;Myosin-11;FAA4;SMHC;Smooth muscle myosin heavy chain 11 isoform SM2;AAT4;Myosin heavy chain 11 smooth muscle;Smooth muscle myosin heavy chain isoform SM2;DKFZp686D10126;MYH11;MYH 11;MGC126726;Myosin heavy chain smooth muscle isoform;DKFZp686D19237;smooth muscle isoform;MGC32963;MYH11_HUMAN;Myosin heavy polypeptide 11 smooth muscle;SMMHC;FLJ35232

Research Background

Myosin is a highly conserved, ubiquitously expressed protein that interacts with Actin to generate the force for cellular movements. Conventional Myosins are hexameric proteins consisting of two heavy chain subunits, a pair of non-phosphorylatable light chain subunits and a pair of phosphorylatable light chain subunits, which is expressed by my calcium and calmodulin-dependent phosphorylation of Myosin light chain (MLC) Myosin heavy chains, encoded by the MYH gene family, contain Actin-activated ATPase activity which generates the motor function of Myosin. Myosin heavy chains were initially isolated from a human fetal skeletal muscle and are the major determinant in the Speed of contraction of skeletal muscle. Various isoforms of myosin heavy chains are differentially expressed depending on th E functional activity of the muscle.