

Product datasheet for **AP05579PU-N**

smooth muscle Myosin heavy chain 11 (MYH11) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections. Western Blot. Immunofluorescence.
Reactivity:	Bovine, Mammalian
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Bovine tracheal smooth muscle myosin.
Specificity:	This antibody specifically recognises the heavy chain of myosin II found in vertebrate smooth muscle, a non-striated muscle present in the walls of hollow organs, the vasculature, the respiratory and gastrointestinal tracts, uterus, bladder and eye. This antibody does not cross-react with myosin of skeletal or non-muscle origin and can be used to specifically stain cultured smooth muscle cells and identify vascular and other smooth muscle types in tissue sections.
Formulation:	20mM TRIS buffered saline pH7.5, 150mM NaCl. containing 0.006% Sodium Azide (NaN ₃) State: Purified State: Purified IgG - liquid
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	myosin, heavy chain 11, smooth muscle
Database Link:	Entrez Gene 4629 Human P35749



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Background:	The structure of myosin II is fundamentally the same in all muscle types and consists of two heavy chains, each bound by 2 distinct, essential and regulatory light chains. The globular motor domain located at the N-terminal domain of the heavy chains, catalyzes ATP hydrolysis and interacts with actin, whilst the heptad repeat sequences of the heavy chain tail domains promote dimerization, forming an alpha-helical coiled coil at the C-terminal domain.
Synonyms:	SMMHC, MYH11, KIAA0866, Myosin heavy chain 11, smooth muscle
Protein Pathways:	Tight junction, Vascular smooth muscle contraction, Viral myocarditis