

**MYH9 Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2869a****Specification**

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**MYH9 Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P35579</a>
Other Accession	<a href="#">NP_002464.1</a> , <a href="#">4627</a>
Reactivity	Human, Mouse
Predicted	Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	226532

**MYH9 Antibody (internal region) - Additional Information****Gene ID** 4627**Other Names**

Myosin-9, Cellular myosin heavy chain, type A, Myosin heavy chain 9, Myosin heavy chain, non-muscle IIa, Non-muscle myosin heavy chain A, NMMHC-A, Non-muscle myosin heavy chain IIa, NMMHC II-a, NMMHC-IIA, MYH9

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MYH9 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**MYH9 Antibody (internal region) - Protein Information****Name** MYH9**Function**

Cellular myosin that appears to play a role in cytokinesis, cell shape, and specialized functions such as secretion and capping. Required for cortical actin clearance prior to oocyte exocytosis (By similarity). Promotes cell motility in conjunction with S100A4 (PubMed:<a href="http://www.uniprot.org/citations/16707441" target="\_blank">16707441</a>). During cell spreading, plays an important role in cytoskeleton reorganization, focal contact formation (in the

margins but not the central part of spreading cells), and lamellipodial retraction; this function is mechanically antagonized by MYH10 (PubMed:<a href="http://www.uniprot.org/citations/20052411" target="\_blank">20052411</a>).

#### Cellular Location

Cytoplasm, cytoskeleton. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q8VDD5}. Cytoplasmic vesicle, secretory vesicle, Cortical granule {ECO:0000250|UniProtKB:Q8VDD5}. Note=Colocalizes with actin filaments at lamellipodia margins and at the leading edge of migrating cells (PubMed:20052411). In retinal pigment epithelial cells, predominantly localized to stress fiber-like structures with some localization to cytoplasmic puncta (PubMed:27331610)

#### Tissue Location

In the kidney, expressed in the glomeruli. Also expressed in leukocytes.

### MYH9 Antibody (internal region) - Protocols

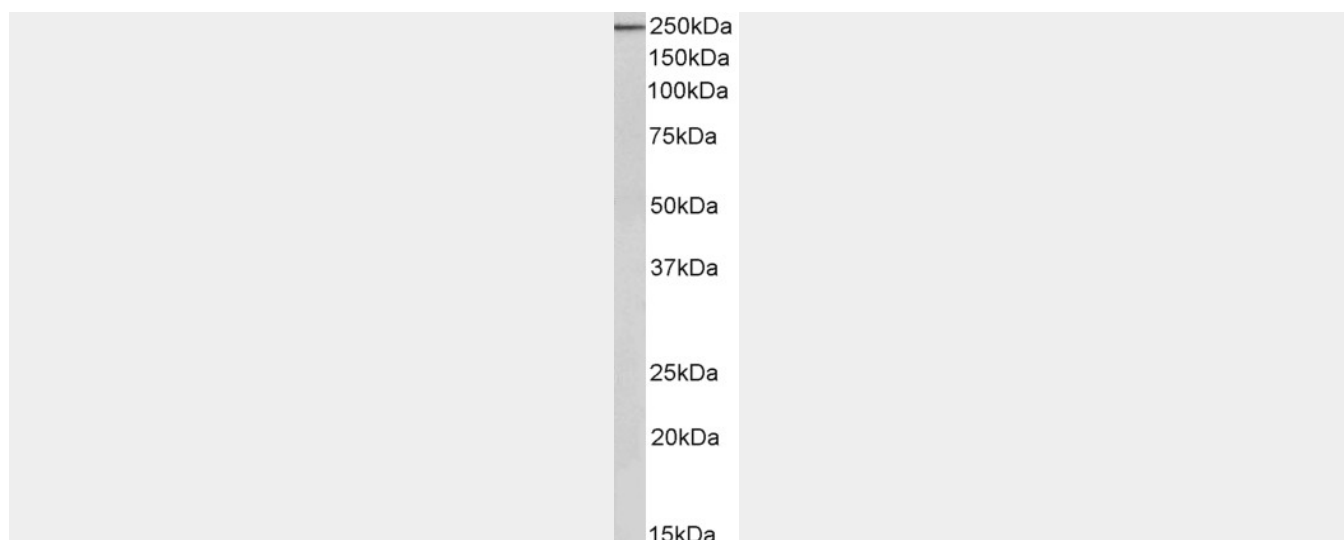
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### MYH9 Antibody (internal region) - Images



AF2869a (0.3 µg/ml) staining of Human peripheral blood lymphocytes lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF2869a (1  $\mu$ g/ml) staining of NIH3T3 lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **MYH9 Antibody (internal region) - References**

Nonmuscle myosin heavy chain IIA mediates integrin LFA-1 de-adhesion during T lymphocyte migration Morin NA, Oakes PW, Hyun YM, Lee D, Chin YE, King MR, Springer TA, Shimaoka M, Tang JX, Reichner JS, Kim M J Exp Med. 2008 Jan 21;205(1):195-205. Epub 2008 Jan 14. PMID: 18195072