



# Myosin IIa (phospho-Ser1943) rabbit pAb

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-10383                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reactivity</b>         | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>       | WB;IHC                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>          | MYH9                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Name</b>       | Myosin IIa (Ser1943)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>          | Synthesized phosho peptide around human Myosin IIa (Ser1943)                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Specificity</b>        | This antibody detects endogenous levels of Human Myosin IIa (phospho-Ser1943)                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.                                                                                                                                                                                                                                                                                                                                     |
| <b>Dilution</b>           | WB 1:500-2000;IHC-p 1:50-300                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>           | 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)                                                                                                                                                                                                                           |
| <b>Observed Band</b>      | 215kD                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cell Pathway</b>       | Cytoplasm, cytoskeleton . Cytoplasm, cell cortex . Cytoplasmic vesicle, secretory vesicle, Cortical granule . 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). .                                           |
| <b>Tissue Specificity</b> | In the kidney, expressed in the glomeruli. Also expressed in leukocytes.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>           | disease:Defects in MYH9 are the cause of Alport syndrome with macrothrombocytopenia (APSM) [MIM:153650]. APSM is an autosomal dominant disorder characterized by the association of ocular lesions, sensorineural hearing loss and nephritis (Alport syndrome) with platelet defects..disease:Defects in MYH9 are the cause of Epstein syndrome (EPS) [MIM:153650]. EPS is an autosomal dominant disorder characterized by the association of |

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macrothrombocytopathy, sensorineural hearing loss and nephritis.,disease:Defects in MYH9 are the cause of Fechtner syndrome (FTNS) [MIM:153640]. FTNS is an autosomal dominant macrothrombocytopenia characterized by thrombocytopenia, giant platelets and leukocyte inclusions that are small and poorly organized. Additionally, FTNS is distinguished by Alport-like clinical features of sensorineural deafness, cataracts and nephritis.,disease:Defects in MYH9 are the cause o

#### Background

This gene encodes a conventional non-muscle myosin; this protein should not be confused with the unconventional myosin-9a or 9b (MYO9A or MYO9B). The encoded protein is a myosin IIA heavy chain that contains an IQ domain and a myosin head-like domain which is involved in several important functions, including cytokinesis, cell motility and maintenance of cell shape. Defects in this gene have been associated with non-syndromic sensorineural deafness autosomal dominant type 17, Epstein syndrome, Alport syndrome with macrothrombocytopenia, Sebastian syndrome, Fechtner syndrome and macrothrombocytopenia with progressive sensorineural deafness. [provided by RefSeq, Dec 2011],

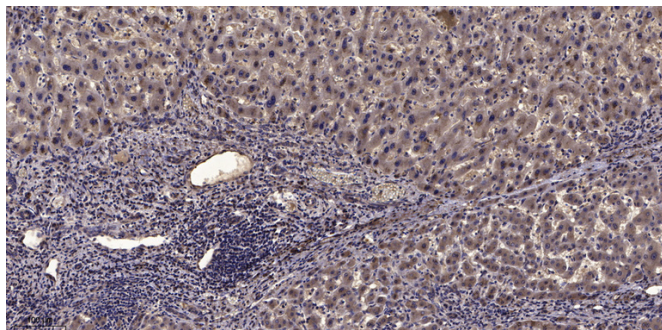
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).