

## Myosin 14 polyclonal antibody

Catalog: BS62405

Host: Rabbit

Reactivity: Human,Rat,Mouse

### BackGround:

Nonmuscle myosin is an actin-based motor protein essential to cell motility, cell division, migration, adhesion, and polarity. The holoenzyme consists of two identical heavy chains and two sets of light chains. The light chains (MLCs) regulate myosin II activity and stability. The heavy chains (NMHCs) are encoded by three genes, MYH9, MYH10, and MYH14, which generate three different nonmuscle myosin II isoforms, IIa, IIb, and IIc, respectively. While all three isoforms perform the same enzymatic tasks, binding to and contracting actin filaments coupled to ATP hydrolysis, their cellular functions do not appear to be redundant and they have different subcellular distributions. The carboxy-terminal tail domain of myosin II is important in isoform-specific subcellular localization. Research studies have shown that phosphorylation of myosin IIa at Ser1943 contributes to the regulation of breast cancer cell migration.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.4.

### Molecular Weight:

~ 228 kDa

### Swiss-Prot:

Q7Z406

### Purification&Purity:

The protein was purified from E.coli and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1:500~1:1000 IHC:1:50~1:200

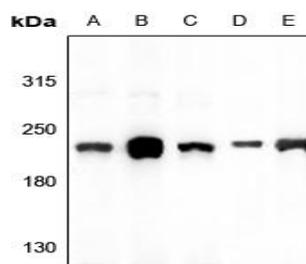
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Myosin 14 polyclonal antibody detects endogenous levels of Myosin 14 protein.

### DATA:



Western blot (WB) analysis of Myosin 14 polyclonal antibody at 1:500 dilution

LaneA:H1792 whole cell lysate

LaneB:HEK293T whole cell lysate

LaneC:HepG2 whole cell lysate

LaneD:The liver tissue lysate of Mouse

LaneE:The liver tissue lysate of Rat

### Note:

For research use only, not for use in diagnostic procedure.

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