

## bs-3287R-Biotin

### • Rabbit Anti-Phospho-MYPT1(Thr696) Polyclonal Antibody, Biotin conjugated

Conjugated Primary Antibodies

#### Background:

Myosin phosphatase regulates the interaction of actin and myosin downstream of the guanosine triphosphatase Rho. The small guanosine triphosphatase Rho is implicated in myosin light chain (MLC) phosphorylation, which results in contraction of smooth muscle and interaction of actin and myosin in non muscle cells. The guanosine triphosphate (GTP) bound, active form of RhoA (GTP.RhoA) specifically interacted with the myosin binding subunit (MBS) of myosin phosphatase, which regulates the extent of phosphorylation of MLC. Rho associated kinase (Rho kinase), which is activated by GTP. RhoA, phosphorylated MBS and consequently inactivated myosin phosphatase. Overexpression of RhoA or activated RhoA in NIH 3T3 cells increased phosphorylation of MBS and MLC. Therefore Rho appears to inhibit myosin phosphatase through the action of Rho kinase.

**Purification:** Was purified by Protein A and peptide affinity chromatography.

#### Modification Site:

Thr696

#### Storage:

Prepared as lyophilized powder and shipped on ice. Store at -20°C for one year as lyophilized powder or liquid. Please reconstitute before use.

#### Reconstitution:

If the antibody is in liquid form, no reconstitution needed.

Reconstitution is only required for the lyophilized antibody. Please refer to the reconstitution instruction card in the package.

**Size:** 100ul or 100ug lyophilized

**Concentration:** 1ug/uL

**Host:** Rabbit

#### Reactivities:

Human, Mouse, Rat, Chicken, Dog, Cow, Horse, Rabbit,

#### Application:

- WB(1:100-500)
- IHC-P(1:100-500)
- IHC-F(1:100-500)
- Not yet tested in other applications. Optimal working dilutions must be determined by the end user.

**Antibody Type:** Polyclonal

**Isotype:** IgG

**Molecular Weight:** 113kDa

#### Preservatives:

10ug/uL BSA and 0.1% NaN<sub>3</sub>.

For research use only. CAUTION: Not for human or animal therapeutic or diagnostic use.

For full size images and description please click [HERE](#).