

# MYPT1 (phospho-Ser668) rabbit pAb

Cat No.:ES14581

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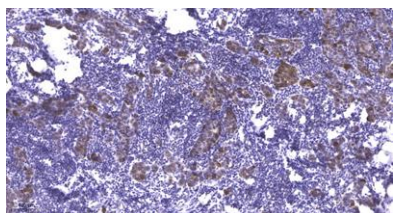
## Overview

|                          |                                                                                                                                                                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name             | MYPT1 (phospho-Ser668) rabbit pAb                                                                                                                                                                                                            |
| Host species             | Rabbit                                                                                                                                                                                                                                       |
| Applications             | WB;ELISA;IHC                                                                                                                                                                                                                                 |
| Species Cross-Reactivity | Human;Rat;Mouse;                                                                                                                                                                                                                             |
| Recommended dilutions    | WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000                                                                                                                                                                                               |
| Immunogen                | Synthesized phospho peptide around human MYPT1 (Ser668)                                                                                                                                                                                      |
| Specificity              | This antibody detects endogenous levels of Human MYPT1 (phospho-Ser668)                                                                                                                                                                      |
| Formulation              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                      |
| Storage                  | Store at -20°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                           |
| Protein Name             | MYPT1 (Ser668)                                                                                                                                                                                                                               |
| Gene Name                | PPP1R12A MBS MYPT1                                                                                                                                                                                                                           |
| Cellular localization    | Cytoplasm . Cytoplasm, cytoskeleton, stress fiber . Also along actomyosin filaments. .                                                                                                                                                       |
| Purification             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                        |
| Clonality                | Polyclonal                                                                                                                                                                                                                                   |
| Concentration            | 1 mg/ml                                                                                                                                                                                                                                      |
| Observed band            | 130kD                                                                                                                                                                                                                                        |
| Human Gene ID            | 4659                                                                                                                                                                                                                                         |
| Human Swiss-Prot Number  | O14974                                                                                                                                                                                                                                       |
| Alternative Names        | Protein phosphatase 1 regulatory subunit 12A (Myosin phosphatase-targeting subunit 1) (Myosin phosphatase target subunit 1) (Protein phosphatase myosin-binding subunit)                                                                     |
| Background               | Myosin phosphatase target subunit 1, which is also called the myosin-binding subunit of myosin phosphatase, is one of the subunits of myosin phosphatase. 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 nonmuscle 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 phosph



Immunohistochemical analysis of paraffin-embedded human Breast 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).

