

---

**Dock7 (Y1118 Phosphorylated) Anti-Human Rabbit IgG Affinity Purify**  
**Polyclonal Antibody****Cat.NO.: PA01130**

3th Edition

**Description:** Small GTPase of Rho family is one of signaling factors which control alteration of cellular morphology, cell division and differentiation, and plays an important role in regulation of generation and organogenesis at an individual level. Its functions are strictly regulated and its dysfunction causes many diseases such as immunological disease or neurodegenerative disease. Dedicator of cytokinesis (Dock) 7 is a Rho family small GTPase activating factor (or exchange factor) activating Rac1 and Cdc42 specifically of the Rho family small GTPase, and is widely expressed molecule. It is noted that Dock7 is an important factor for proliferation and differentiation of neurocytes or glial cells since it is more expressed especially in both of the central and peripheral nerve tissues. ErbB2 which belongs to the EGF receptor family that is important to neurogenesis interacts with Dock 7 and phosphorylates the 1118th tyrosine of Dock7 directly and activates it. As ErbB2 is a gene responsible for breast cancer, it is also a target of anti-cancer drugs. Dock7 has attracted attention for its relation to breast cancer because it is a novel substrate of ErbB2.

**Antigen:** Synthetic peptide of the phosphorylated part of Human Dock7 (ETVPQL(pY)DFTET)

**Form:** Lyophilized product from 1% BSA in PBS containing 0.05% NaN<sub>3</sub>

**How to use:** 1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:** PBS (pH7.4) containing 1% BSA

**Application:** This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:** Cross-reacts with rat and mouse.