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## **EPHA4 (N) Antibody, Rabbit Polyclonal**

**Cat#: R2266-1**

**Quantity: 100 ul**

**Predicted | Observed M.W.: 110 kDa**

**Lot#: Refer to vial**

**Application: WB**

**Uniprot ID: P54764**

### **Background:**

Ephrin type-A receptor 4 (EPHA4) is a receptor tyrosine kinase which binds membrane-bound ephrin family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Highly promiscuous, it has the unique property among Eph receptors to bind and to be physiologically activated by both GPI-anchored ephrin-A and transmembrane ephrin-B ligands including EFNA1 and EFNB3. Upon activation by ephrin ligands, EPHA4 modulates cell morphology and integrin-dependent cell adhesion through regulation of the Rac, Rap and Rho GTPases activity. EPHA4 plays an important role in the development of the nervous system controlling different steps of axonal guidance including the establishment of the corticospinal projections. EPHA4 may also control the segregation of motor and sensory axons during neuromuscular circuit development. Additionally, its promiscuity makes it available to participate in a variety of cell-cell signaling regulating the development of the thymic epithelium.

### **Other Names:**

Ephrin type-A receptor 4, EPH-like kinase 8, EK8, hEK8, Tyrosine-protein kinase TYRO1, Tyrosine-protein kinase receptor SEK, HEK8, SEK, TYRO1

### **Source and Purity:**

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human EPHA4. Antibodies were purified by affinity purification using immunogen.

### **Storage Buffer and Condition:**

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN<sub>3</sub>. Store at -20 °C. Stable for 6 months from date of receipt.

### **Tested Applications:**

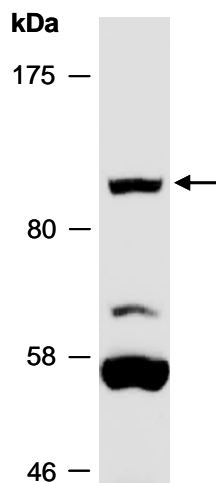
WB: 1:1,000-1:3,000 (detect endogenous protein\*)

\*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

**Species Specificity:**

Human

**Product Data:**



**Fig 1.** Western blot of total cell extracts from human Jurkat, using anti-EPHA4 (N) (R2266-1) at RT for 2 h.