

## GRB2

**Reactivity:** Human

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200

**Calculated MW:** 25kD

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human GRB2

**Storage Buffer:**

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

joqr

**Synonym:**

ASH; EGFRBP-GRB2; Grb3-3; MST084; MSTP084;

**Catalog #:** A0039

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 2885

**Isotype:** IgG

**Swiss Prot:** P62993

**Purity:** Affinity purification

For research use only.

**Background:**

The Grb-associated binder (Gab) family is a family of adaptor proteins recruited by a wide variety of receptor tyrosine kinases (RTKs) such as EGFR, HGFR, insulin receptor, cytokine receptor and B cell antigen receptors. Upon stimulation of RTKs by their cognate ligand, Gab is recruited to the plasma membrane where it is phosphorylated and functions as a scaffold (1-4). Multiple tyrosine phosphorylation sites of Gab1 protein have been identified (5). Phosphorylation of Tyr472 regulates its binding to p85 PI3 kinase (6,7). Phosphorylation of Gab1 at Tyr307, Tyr373 and Tyr407 modulates its association to PLC(8). Phosphorylation of Tyr627 and Tyr659 is required for Gab1 binding to and activation of the protein tyrosine phosphatase SHP2 (6,9). Akt phosphorylates Gab2 at Ser159. This phosphorylation inhibits Gab2 tyrosine phosphorylation and downstream signal amplification (10).

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