

Anti-GRB2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Chicken,Dog)
Molecular Weight:	Theoretical: 25 kDa. Actual: 25 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	<p>1. Sample: 293T Cell (Human) Lysate at 30 µg Primary: Anti-GRB2 (TMAB-06763) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD Observed band size: 25 kD</p> <p>2. Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GRB2) Polyclonal Antibody, Unconjugated (TMAB-06763) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p> <p>3. Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Incubation with (GRB2) Polyclonal Antibody, Unconjugated (TMAB-06763) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.</p>
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human GRB2
Antigen Species:	Human
Gene ID:	2885
Uniprot ID:	P62993

Research Background

Growth factor receptor bound protein 2 (GRB2), also known as Ash protein, is a 24 kDa protein that contains a central Src homology (SH2) domain flanked by two SH3 domains. GRB2 is believed to be a regulatory subunit of signaling molecules whose activity is modulated by receptor binding. GRB2 associates with activated (tyrosine phosphorylated) EGFR and PDGFR via its SH2 domain as well as IRS1, SHC, and LNK through SH2 and SH3 domains.

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The SH3 domain binds to SOS, a guanine nucleotide exchange factor for Ras proteins. Endocytosis of activated EGFR requires the interaction of GRB2 with the GTP binding protein dynamin, a factor essential to the formation of endocytotic vesicle. It is ubiquitously expressed and several isoforms are produced by alternative splicing. On SDS PAGE, GRB2 has an apparent molecular weight of 28 kDa.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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