

Anti-GRB2 Antibody

Catalog Number: PA1579

About GRB2

GRB2, Growth factor receptor-bound protein 2, is an adaptor protein involved in signal transduction/cell communication. The GRB2 gene encodes a protein that has homology to noncatalytic regions of the SRC oncogene product. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. In humans, the GRB2 protein is encoded by the GRB2 gene. Grb2 is widely expressed and is essential for multiple cellular functions. The protein encoded by this gene binds receptors such as the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. This gene is similar to the sem-5 gene of *Caenorhabditis elegans*, which is involved in the signal transduction pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-GRB2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for Growth factor receptor-bound protein 2 (GRB2) detection. Tested with WB in Human; Mouse; Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P62993

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GRB2(184-201aa HVMDNSDPNWWKGACHGQ), identical to the related rat and mouse sequences.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Isotype	N/A
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5µg/ml, Human, Rat, Mouse
	For protocols please visit https://www.bosterbio.com/protocol-and-troubleshooting/

Anti-GRB2 Antibody (PA1579) Images

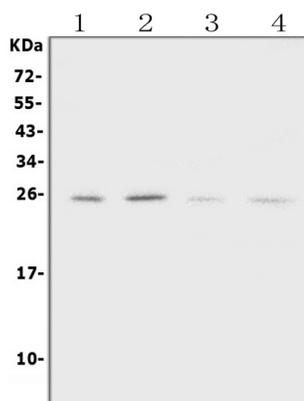


Figure 1. Western blot analysis of GRB2 using anti-GRB2 antibody (PA1579).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human HEK293 whole cell lysates

Lane 2: rat brain tissue lysates

Lane 3: rat spleen tissue lysates

Lane 4: mouse spleen tissue lysates

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.

Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GRB2 antigen affinity purified polyclonal antibody (Catalog # PA1579) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GRB2 at approximately 25KD.

The expected band size for GRB2 is at 25KD.

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