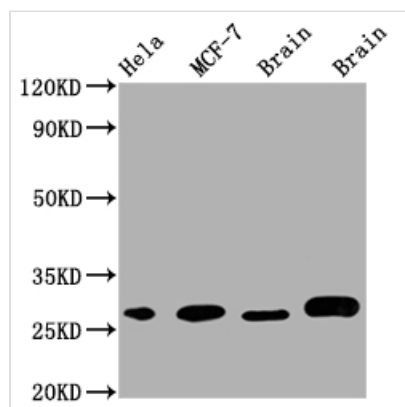




GRB2 Recombinant Monoclonal Antibody

Product Code	CSB-RA981267A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P62993
Immunogen	A synthesized peptide derived from human GRB2
Species Reactivity	Human, Mouse, Rat
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Adapter protein that provides a critical link between cell surface growth factor receptors and the Ras signaling pathway.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Signal transduction
Gene Names	GRB2
Clone No.	6E1

Image

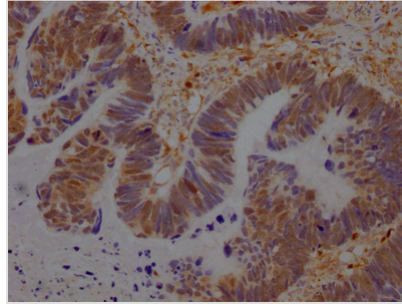


Western Blot

Positive WB detected in: HeLa whole cell lysate, MCF-7 whole cell lysate, Mouse Brain whole cell lysate, Rat Brain whole cell lysate
All lanes: GRB2 antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 26, 21 kDa
Observed band size: 28 kDa



IHC image of CSB-RA981267A0HU diluted at 1:100 and staining in paraffin-embedded human ovarian cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

GRB2 is a positive regulator of Ras signaling downstream of many growth factor receptors. It is constitutively expressed in T cells and associates with LAT or the CD3 complex via Shc upon TCR stimulation. In addition to the involvement in basic cellular events such as cell growth, cell proliferation, and metabolism, GRB2 plays an important function in embryogenesis and malignant transformation. GRB2 signaling is critical for cell cycle progression and actin-based cell motility, and consequently, more complex processes such as epithelial morphogenesis, angiogenesis, and vasculogenesis.

The production of the recombinant GRB2 antibody includes extracting RNA from spleen cells that are derived from immunized animals, reversely transcribing the RNA into DNA, sequencing and screening antibody genes, amplifying the heavy chain and light chain genes of the antibody using PCR technology, linking and cloning the genes into a plasma vector, and introducing the vector clone into a mammalian cell for functional antibody expression. The recombinant GRB2 antibody was purified using Affinity-chromatography. It can be used to detect the GRB2 antibody from Human, Mouse, Rat in the ELISA, WB, IHC.