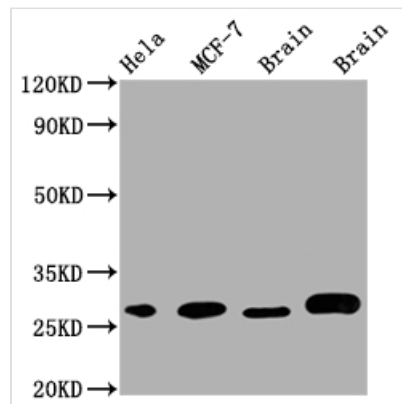




# GRB2 Antibody

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

## Image

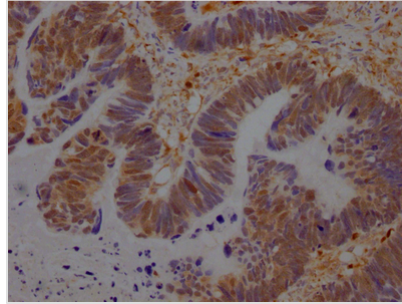


### Western Blot

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 Bond™ 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°C 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.