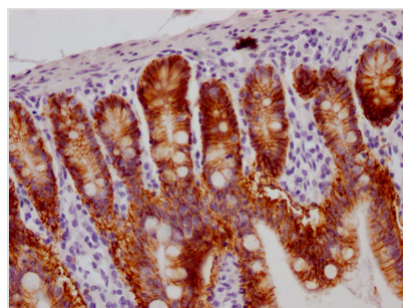




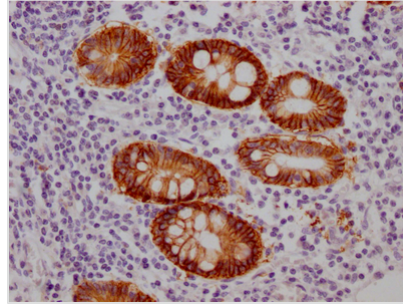
GPA33 Antibody

Product Code	CSB-RA245537A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q99795
Immunogen	A synthesized peptide derived from human GPA33
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	May play a role in cell-cell recognition and signaling.
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; Immunology
Gene Names	GPA33
Accession NO.	4H4

Image



IHC image of CSB-RA245537A0HU diluted at 1:100 and staining in paraffin-embedded human small intestine tissue 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°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA245537A0HU diluted at 1:100 and staining in paraffin-embedded human colon 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°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

GPA33 has high homology with CD2 and possesses a V-type Ig-like domain at its N terminus. It's also linked to T cell activation inhibitory proteins including CD276 (B7-H3) and VSIG4, as well as many cell adhesion molecules like CEACAM, ICAM, and NCAM (3D-Protein BLAST, NCBI). Immune dysfunction has been linked to GPA33. Polymorphisms in the gene encoding GPA33 have been linked to the autoimmune condition eosinophilic granulomatosis with polyangiitis. Furthermore, the GPA33 gene is found in a Sjögren's Syndrome susceptibility locus. Hypersensitivity to dietary allergens and increased inflammatory responses to experimentally caused colitis was seen in a GPA33 knockout mice model.

The preparation of the recombinant GPA33 antibody involves the mammalian cell lines expression of plasma vectors containing GPA33 antibody genes. B cells isolated from immunized animals' blood were treated to obtain RNA, which underwent reverse transcription to yield DNA genes. Antibody genes were sequenced and screened from the DNA. After transient expression, cell supernatant was collected and then purified using Affinity-chromatography to obtain the recombinant GPA33 antibody. This recombinant GPA33 antibody is recommended to use in the GPA33 for the detection of GPA33 protein from Human.