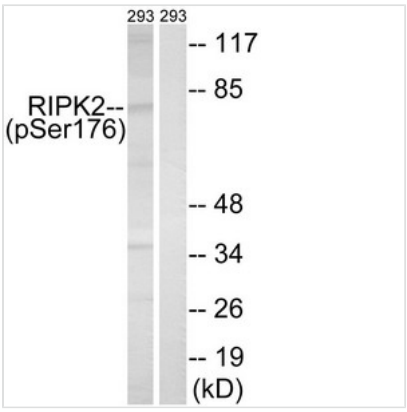
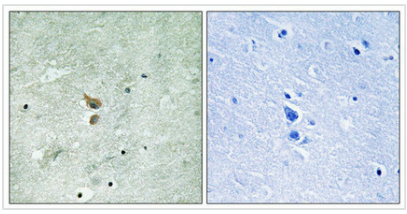
Phospho-RIPK2 (Ser176) Antibody

Product Code	CSB-PA231579
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O43353
Immunogen	Peptide sequence around phosphorylation site of serine 176 (S-L-S(p)-Q-S) derived from Human RIPK2.
Raised In	Rabbit
Species Reactivity	Human,Mouse
Specificity	The antibody detects endogenous levels of RIPK2 only when phosphorylated at serine 176.
Tested Applications	ELISA,WB,IHC;WB:1:500-1:3000,IHC:1:50-1:100
Relevance	Serine/threonine/tyrosine kinase that plays an essential role in modulation of innate and adaptive immune responses. Upon stimulation by bacterial peptidoglycans, NOD1 and NOD2 are activated, oligomerize and recruit RIPK2 through CARD-CARD domains. Contributes to the tyrosine phosphorylation of the guanine exchange factor ARHGEF2 through Src tyrosine kinase leading to NF-kappaB activation by NOD2. Once recruited, RIPK2 autophosphorylates and undergoes 'Lys-63'-linked polyubiquitination by E3 ubiquitin ligases XIAP, BIRC2 and BIRC3. The polyubiquitinated protein mediates the recruitment of MAP3K7/TAK1 to IKBKG/NEMO and induces 'Lys-63'-linked polyubiquitination of IKBKG/NEMO and subsequent activation of IKBKB/IKKB. In turn, NF-kappa-B is released from NF-kappa-B inhibitors and translocates into the nucleus where it activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. Plays also a role during engagement of the T-cell receptor (TCR) in promoting BCL10 phosphorylation and subsequent NF-kappa-B activation.
Form	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Clonality	Polyclonal
Alias	CARD-containing IL-1 beta ICE-kinase; CARD-containing interleukin-1 beta converting enzyme associated kinase; CARDIAK; EC 2.7.11.1; kinase RIPK2; Receptor-interacting protein 2; Receptor-interacting serine/threonine protein kinase 2; RICK; RIP-2; RIP-like
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	RIPK2

Image



Western blot analysis of extracts from 293 cells, treated with UV (15mins), using RIPK2 (Phospho-Ser176) antibody. The lane on the right is treated with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue using RIPK2 (Phospho-Ser176) antibody. The picture on the right is treated with the synthesized peptide.

Product Modify

Phospho-Ser176