

## Product datasheet for **TA389022**

### Phospho-Rela (pSer316) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>WB:</b> 1:1000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser316 of mouse NF-kB p65, conjugated to keyhole limpet hemocyanin (KLH).
Specificity:	Specific for endogenous levels of the ~65 kDa NF-kB p65 protein phosphorylated at Ser316. Immunolabeling is eliminated with $\lambda$ -phosphatase treatment.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g per ml BSA and 50% glycerol.
Concentration:	lot specific
Purification:	Antigen Affinity Purified from Pooled Serum
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	62
Gene Name:	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Database Link:	<a href="#">Entrez Gene 19697 Mouse Q04207</a>



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- Background:** p65, also known as RelA, is one of the five members of the NF- $\kappa$ B family. The p65 and p50 heterodimer is the predominant form of NF- $\kappa$ B, where p65 is the major subunit (Gilmore et al, 2006). There have been 13 identified phosphorylation sites on p65, including Ser-316 which is induced by IL-1 $\beta$  (Viatour et al, 2005 and Wang et al, 2015). Phosphorylation of Ser-316 is essential for NF- $\kappa$ B nuclear transportation, NF- $\kappa$ B-dependent gene regulation, cytokine/chemokine secretion, and other biological functions (Wang et al, 2015). Ser-316 has also been demonstrated to co-phosphorylate with either Ser-529 or Ser-536 to regulate the majority of NF- $\kappa$ B targeted genes while having its own unique regulation function (Wang et al, 2015). CKI kinase specifically targets phosphorylation at Ser-316 on p65 (Wang et al, 2015). CKI is involved in regulation of membrane transport, cell division, DNA repair, and nuclear localization by phosphorylating its target proteins (Price et al, 2006).
- Synonyms:** MGC131774; NFKB3; p65
- Note:** Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.