Store at: -20°C

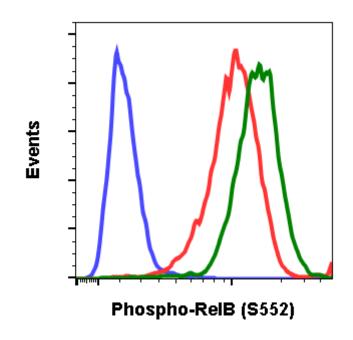
For Research Use Only. Not For Use In Diagnostic Procedures.

| Applications          | Detection   | Clonality   | Isotype   |
|-----------------------|---|---|---|
| Flow Cytometry        | Anti-Rabbit IgG   | Monoclonal  | Rabbit IgGk   |
| Format:               | Unconjugated  |   |   |
| Cross Reactivity:     | Predicted to work with mouse, rat a   | nd other homologues.  |   |
| Formulation:          | 1X PBS, 0.02% NaN3, 50% Glycerol  | , 0.1% BSA  |   |
| Preparation:          | Protein A+G   |   |   |
| Reactivity:           | Human,Mouse   |   |   |
| Recommended<br>Usage: | 1μg/mL – 0.001μg/mL. It is recomm<br>performance for each application. S<br>information.  |   |   |
| Immunogen:            | A synthetic phospho-peptide corres<br>human phospho ReIB  | ponding to residues surrou  | unding Ser552 of  |
| Description:          | RelB contains the Rel homology Dork<br>kB family (1). It is best known for its<br>and noncanonical signaling (2). Rell<br>frequently functioning as a dual tran-<br>generating silent facultative heteror-<br>others (3). RelB is required to repre-<br>genes during endotoxin tolerance (4<br>a motif unique among the NF-κB far-<br>sequences than other NF-κB member<br>forming a heterodimer with NF-kB p<br>Like all NF-kB members, RelB conta<br>RHD. This region supports many of<br>binding, dimerization, and nuclear I<br>members, has an N-terminal leucing<br>interact with many proteins (8). p10<br>inhibitor (9), where it sequesters Re-<br>phosphorylated rapidly at threoning<br>N-terminus and its degradation by t<br>are mediated by glycogen synthase<br>phospho RelB phosphorylation and<br>occur when phospho RelB is phosph<br>association with and stabilization by | s roles in lymphoid develop<br>B is a major contributor to<br>nscription factor that silen<br>chromatin and activates e<br>ss immediate-response pr<br>4). The N-terminal leucine<br>mily, may associate with n<br>ers (5). RelB binds to DNA<br>050 or p52 (6).<br>ins an ~300-residue regio<br>the NF-kB essential functio<br>ocalization (7). RelB, unlik<br>e zipper motif (1), a domai<br>00, the C-terminus of NF-kl<br>elB in the cytosol to repres<br>a 84 and serine 552, causin<br>the proteasome (10). Thes<br>e kinase-3 $\beta$ , specific inhibit<br>degradation (11). This deg<br>norylated at serine 368, all | pment, DC biology,<br>chromatin biology,<br>ces sets of genes by<br>uchromatin of<br>oinflammatory<br>zipper motif of RelB,<br>nore diverse DNA<br>but only after<br>n known as the<br>ons, such as DNA<br>e other NF-kB<br>in that can typically<br>B2 acts as a RelB<br>s its activity. RelB is<br>ng cleavage at the<br>e phosphorylations<br>cion of which blocks<br>gradation does not |



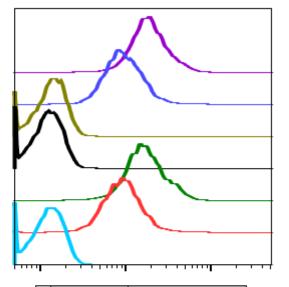
## **References:**

- 1. Ryseck R P et al., (1992), Cell. Biol. 12, 674-684.
- 2. Vallabhapurapu S., and Karin M. (2009), Annu. Rev. Immunol. 27, 693–733.
- 3. McCall C E and Yoza B K, (2007) Am. J. Respir. Crit. Care Med. 175, 763-767.
  - 4. Yoza B K et al., (2006) J. Immunol. 177, 4080–4085.
  - 5. Liu T F et al., (2011) J. Biol. Chem. 286, 9856–9864.
  - 5. Moorthy AK et al., (2007) J. Mol. Biol. 373, 723-734.
  - 6. Bours V et al., (1994) Oncogene 9, 1699–1702.
  - 7. Baldwin A. S., Jr., (1996) Annu. Rev. Immunol. 14, 649–683.
  - 8. Alber T. (1992), Curr. Opin. Genet. Dev. 2, 205-210.
  - 9. Dobrzanski P et al., (1993), Mol. Cell. Biol. 13, 1572–1582.
  - 10 Marienfeld R et al., (2001), Oncogene 20, 8142-8147.
  - 11. Neumann M. Et al., (2011), Oncogene 30, 2485-2492.
  - 12 Maier HJ et al., (2003), J. Biol. Chem. 278, 39242-39250.



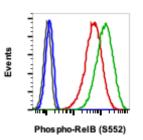
Flow cytometric analysis of NIH3T3 cells secondary antibody only negative control (blue) or untreated (red) or treated with UV + TPA (green) using 0.01  $\mu$ g/mL Phospho-RelB (Ser552) antibody RelBS552-A7. Cat. #2206.





| SampleID  | Median : BL1-A |
|-----------|----------------|
| UV A7 N   | 18218          |
| Ctrl A7 N | 9171           |
| UV A7 P   | 1366           |
| Ctrl A7 P | 1206           |
| UV A7     | 16326          |
| Ctrl A7   | 8972           |
| Ctrl KLH  | 1241           |

Peptide blocking flow cytometric analysis of 3T3 cells isotype antibody-stained negative control (light blue) or untreated (red) or treated with UV and PMA (green) or untreated and blocked with phospho-peptide (black) or UV/PMA and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or UV/PMA and blocked with non-phospho peptide (purple) using Phospho-RelB (Ser552) antibody RelBS552-A7 0.01µg/mL. Cat. #2206.



Flow cytometric analysis of HeLa cells untreated (red) or treated with UV+TPA (green) using 0.1 µg/mL Phospho-RelB (Ser552) antibody RelBS552-A7. Cat. #2206, or concentration-matched rabbit (G9) mAb IgG isotope control #2141 for cells untreated (black) or treated with UV+TPA (blue).

