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## Phospho-A20/TNFAIP3 (Ser381) Antibody



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| Applications:<br>W, IP       | <b>Reactivity:</b><br>H | <b>Sensitivity:</b><br>Endogenous   | <b>MW (kDa):</b><br>92   | <b>Source/Isotype:</b><br>Rabbit  | UniProt ID:<br>#P21580   | Entrez-Gene Id:<br>7128  |
|------------------------------|-------------------------|---|--|---|--|--|
| Product Usage<br>Information | 2                       | <b>Application</b><br>Western Blotting<br>Immunoprecipitation   |  |   | <b>Dilution</b><br>1:1000<br>1:50  |  |
| Storage                      |                         | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at –<br>20°C. Do not aliquot the antibody.  |  |   |  |  |
| Specificity/Sen              | sitivity                | Phospho-A20/TNFAIP3<br>when phosphorylated  |  | recognizes endogenous   | s levels of A20/TNFA   | IP3 protein only   |
| Source / Purifi              | cation                  |   | Ser381 of human A  | munizing animals with a 20/TNFAIP3 protein. An  |  |  |
| Background                   |                         | to inhibit apoptosis an<br>response gene in hum<br>containing seven Cys2<br>lymphoid tissues (4), b<br>signals such as TNF-α<br>resistance to apoptosi<br>with TRAF (TNF recept<br>inhibiting protein ABII<br>activity that can contri<br>ubiquitinating (DUB) a<br>carboxyl-terminus con<br>leads to their degrada<br>A20 gets phosphorylat<br>enhances the deubiqu<br>complexes (13). Therei<br>inflammatory signalin | d activate NF-κB (1<br>ian umbilical vein e<br>/Cys2-zinc finger m<br>out it is transiently e<br>(3,5), IL-1 (3,5), pho<br>s and NF-κB activat<br>or associated facto<br>V (10). Studies also<br>bute to its biologic.<br>ctivity for Lys63 bra<br>itains ubiquitin liga<br>tion (12).<br>ted at Ser381 by IKI<br>itnase activiaty of /<br>fore, A20 works as<br>g (13). Phosphoryla | otein 3 (TNFAIP3), is cyta<br>,2). It was first identified<br>ndothelial cells, and enc<br>notifs (3). Constitutive ex<br>expressed in a variety of<br>rbol esters (6), and LPS (<br>ion triggered by these s<br>r) family members (8,9),<br>show that A20 contains<br>al functions (11,12). The<br>anches, such as those fo<br>se (E3) activity for Lys48<br>Kβ downstream of varior<br>A20 leading to disassem<br>part of a negative feedb<br>tion at Ser381 could be | as a TNF-α inducib<br>odes a 790-amino a<br>pression of A20 is o<br>cell types in respon<br>(7). Expression of A2<br>ignals, probably thr<br>and interaction with<br>site-specific ubiquit<br>amino-terminus of<br>und in TRAF6 and R<br>branches of the sar<br>us innate immune a<br>bly of inflammatory<br>ack loop to limit NF- | le primary<br>acid protein<br>observed in<br>se to inflammatory<br>20 can confer<br>ough interference<br>h the NF-kB<br>cin modifying<br>A20 contains de-<br>tIP, while the<br>me substrates and<br>activators, which<br>y signaling<br>-kB activation and |
| Background R                 | eferences               | 1. Beyaert, R. et al. (20<br>2. Lee, E.G. et al. (2000<br>3. Dixit, V.M. et al. (199<br>4. Tewari, M. et al. (199<br>5. Jäättelä, M. et al. (199<br>6. Laherty, C.D. et al. (199<br>8. Song, H.Y. et al. (1999)<br>9. Heyninck, K. and Be<br>10. Heyninck, K. et al. (11.<br>Evans, P.C. et al. (2008<br>13. Hutti, J.E. et al. (2008   | ) <i>Science</i> 289, 2350<br>90) <i>J Biol Chem</i> 265,<br>95) <i>J Immunol</i> 154,<br>196) <i>J Immunol</i> 156,<br>1993) <i>J Biol Chem</i> 2<br>8 <i>lood</i> 92, 2759-65.<br>96) <i>Proc Natl Acad</i> 2<br>yaert, R. (1999) <i>FEE</i><br>(1999) <i>J Cell Biol</i> 149<br>904) <i>Biochem J</i> 378<br>8) <i>J Mol Biol</i> 376, 52   | -4.<br>2973-8.<br>1699-706.<br>1166-73.<br>68, 5032-9.<br><i>Sci USA</i> 93, 6721-5.<br><i>S Lett</i> 442, 147-50.<br>5, 1471-82.<br>727-34.<br>6-40.   |  |  |
| Species Reacti               | vity                    | Species reactivity is de  | termined by testing  | g in at least one approve   | ed application (e.g.,  | western blot).   |
| Western Blot E               | Buffer                  | IMPORTANT: For west<br>TBS, 0.1% Tween® 20  |  | membrane with diluted<br>shaking, overnight.  | primary antibody ir  | ר 5% w/v BSA, 1X   |
| Applications K               | ey                      | W: Western Blotting I   | <b>?:</b> Immunoprecipita  | ition   |  |  |

| Cross-Reactivity Key   | H: Human   |  |  |
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