

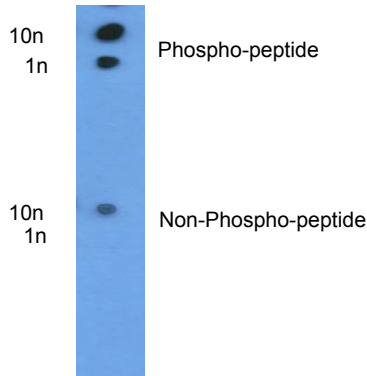
**RABBIT ANTI-Phospho-ITCH (pT222)  
POLYCLONAL ANTIBODY**

**CATALOG NUMBER:** AB10050      **QUANTITY:** 100 µg  
**LOT NUMBER:**      **CONCENTRATION:** 1 mg/mL

**BACKGROUND:** ITCH is an E3 ubiquitin-protein ligase that accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. ITCH regulates the transcriptional activity of several transcription factors including the hematopoietic transcription factor NF-E2, and may play an important role in the regulation of immune response. ITCH down-regulates Epstein-Barr virus LMP2A activity in B cell signaling, and also interacts with NOTCH1, OCLN, JUN, and JUNB. ITCH has a wide tissue distribution and is localized within the nucleus and cytoplasm. Two ITCH splice variants have been described; an approximately 103 kDa form as well as a truncated form (~98 kDa) lacking 42 amino acids in the N-terminal half of the protein. ITCH contains a MAP Kinase binding site and its activity is modulated by phosphorylation at multiple threonine residues by JNK1.

**IMMUNOGEN:** Synthetic peptide corresponding to a portion of human ITCH encompassing the phosphorylated Tyrosine at position 222.

**APPLICATIONS:** Western Blot: Recommended Dilution 1 - 5 µg/mL  
Dot Blot



*Optimal working dilutions must be determined by end user.*

**SPECIES REACTIVITY:** Human.  
**FORMAT:** Affinity purified immunoglobulin.  
**PRESENTATION:** Liquid in Tris-citrate/phosphate buffer, pH 7-8, containing 0.1% sodium azide.  
**STORAGE/HANDLING:** Maintain at 2-8°C for up to 12 months from date of receipt.

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

© 2002-2006 CHEMICON<sup>®</sup> International, Inc. - By CHEMICON<sup>®</sup> International, Inc. All rights reserved. No part of these works may be reproduced in any form without permissions in writing.

**REFERENCES:** Gao, M *et al. Science* (2004) **306**: 271-275.  
Chang, L. *et al. Cell* (2006) **124**: 601-613.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

*For research use only; not for use as a diagnostic.*

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

© 2002-2006 CHEMICON® International, Inc. - By CHEMICON® International, Inc. All rights reserved. No part of these works may be reproduced in any form without permissions in writing.

---

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233  
Australia +61 3 9839 2000 • Germany +49-6192-207300 • ISO Registered worldwide  
[www.chemicon.com](http://www.chemicon.com) • [custserv@chemicon.com](mailto:custserv@chemicon.com) • [techserv@chemicon.com](mailto:techserv@chemicon.com)