

## Anti-IRAK2 (CT) Antibody

### ORDERING INFORMATION

**Catalog No.:** 2213

**Size:** 100 ug IgG in PBS, pH 7.4,  
purified by immunoaffinity chroma-  
tography.

### BACKGROUND

The pro-inflammatory cytokine IL-1 induces cellular responses through two subunits of its receptor, IL-1 receptor 1 (IL-1R1) and IL-1 receptor accessory protein (IL-1RacP). IL-1 receptor-associated kinase (IRAK) mediates activation of NF- $\kappa$ B, a key transcription factor that mediates inflammatory and immune responses. A novel member of the IRAK/Pelle family was recently identified and designated IRAK2. Both IRAK and IRAK2 associate with the subunits of the IL-1R complex after IL-1 binding and lead to NF- $\kappa$ B activation. IRAKs also associate with Toll-like receptor (TLR) and the dominant negative mutants of IRAKs inhibit LPS-induced NF- $\kappa$ B activation. Members of the IRAK/Pelle family play a central role in IL-1R and TLR-mediated inflammatory responses to IL-1 and LPS. IRAK2 is expressed in a variety of human tissues.

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to aa 571-590 of human IRAK2.

**Host Species:** Rabbit

**Stabilizers:** None

**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes human IRAK2 (65 kD). No cross-reactivity with IRAK.

### APPLICATIONS

*Immunoblotting:* use at 1:500-1:1,000 dilution.

*Positive control:* Whole cell lysate from HeLa cells or K562 cells.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*