



### Anti-IRAK-2 (CT), rabbit polyclonal

**Catalog Number:** 905-265

**Quantity:** 100 µg

**Background:** The pro-inflammatory cytokine IL-1 induces cellular response through two subunits of its receptor, IL-1 receptor I (IL-1RI) and IL-1 receptor accessory protein (IL-1RAcP). IL-1 receptor-associated kinase (IRAK) mediates activation of NF-κB, which is a pivotal transcription factor mediating inflammatory and immune response. A novel member in the IRAK/Pelle family was recently identified and designated IRAK2 (1). Both IRAK and IRAK2 recruit to the subunits of the IL-1R complex after IL-1 binding and lead to NF-κB activation. IRAKs also associate with Toll like receptor (TLR) and the dominant negative mutants of IRAKs inhibit LPS-induced NF-κB activation (2,3). Members in IRAK/Pelle family play a central role in IL-1R and TLR mediated inflammatory response. IRAK2 is expressed in a variety of human tissues.

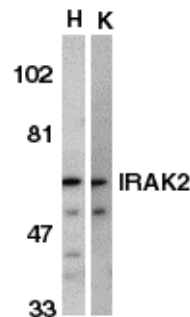
**Source:** Rabbit anti-IRAK2 (C2) polyclonal antibody was raised against a peptide corresponding to amino acid 546 to 564 of human IRAK2 (1).

**Purification:** Immunoaffinity Chromatography Purified

**Form:** In PBS containing 0.02% sodium azide.

**Stability:** Stable for one year when stored at 4°C.

**Application:** This polyclonal antibody can be used for detection of IRAK2 by Western blot at 1:500 to 1:1000 dilution. Whole cell lysate from HeLa or K562 cells can be used as positive control and a 65 kDa band should be detected. Anti-IRAK2 has no cross response to IRAK. For research use only.



Western blot analysis of IRAK2 in HeLa (H) and K562 (K) whole cell lysate with anti-IRAK2 (C2) at 1:500 dilution.

**For Research Use Only; Not for Therapeutic or Diagnostic Use.**

**References:**

1. Muzio M, Ni J, Feng P, Dixit VM. IRAK (Pelle) family member IRAK-2 and MyD88 as proximal mediators of IL-1 signaling. *Science* 1997; 278:1612-5.
2. Zhang FX, Kirschning CJ, Mancinelli R, Xu XP, Jin Y, Faure E, Mantovani A, Rothe M, Muzio M, Arditi M. Bacterial lipopolysaccharide activates nuclear factor-kappaB through interleukin-1 signaling mediators in cultured human dermal endothelial cells and mononuclear phagocytes. *J Biol Chem* 1999;274:7611-4.
3. Yang RB, Mark MR, Gurney AL, Godowski PJ. Signaling events induced by lipopolysaccharide-activated toll-like receptor 2. *J Immunol* 1999;163:639-43.

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