



# Anti-IRAK4 (full length) polyclonal antibody (DPAB-DC2127)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Antigen Description</b> | This gene encodes a kinase that activates NF-kappaB in both the Toll-like receptor (TLR) and T-cell receptor (TCR) signaling pathways. The protein is essential for most innate immune responses. Mutations in this gene result in IRAK4 deficiency and recurrent invasive pneumococcal disease. Multiple transcript variants encoding different isoforms have been found for this gene.                                                                                                                                                  |
| <b>Immunogen</b>           | IRAK4 (AAH13316.1, 1 a.a. ~ 460 a.a) full-length recombinant protein with GST tag. The sequence is<br>MNKPITPSTYVRCLNVGLIRKLSDFIDPQEGWKKLAVAIKKPSGDDRYNQFHIRRFEALL<br>QTGKSPTSELLFDWGTTNCTVGDLDVLLIQNEFFAPASLLLPDAVPKTANTLPSKEAITV<br>QQKQMPFCDKDRTLMTVPQNLEQSYMPPDSSSPENKSLEVSDTRFHSFSFYELKNVTNNF<br>DERPISVGGNKMGEFGGVVYKGYVNNTTAVKKPAAMVDITTEELKQQFDQEIKVMAKC<br>QHENVLLGFSSDGDLDCLVYVYMPNGSLDRLSCLDGTPLSWHMRCKIAQGAANGIN<br>FLHENHHIHRDIKSANILLDEAFTAKISDFGLARASEKFAQTVMTSRIVGTTAYMAPEAL<br>RGEITPKSDIYSFGVVLLEIITGLPAVDEHREPQLLLDIKE |
| <b>Source/Host</b>         | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species Reactivity</b>  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Conjugate</b>           | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>        | WB (Recombinant protein), ELISA,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Size</b>                | 50 µl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Buffer</b>              | 50 % glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Preservative</b>        | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

|                     |                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| Gene Name           | <a href="#">IRAK4 interleukin-1 receptor-associated kinase 4 [ Homo sapiens (human) ]</a>                             |
| Official Symbol     | IRAK4                                                                                                                 |
| Synonyms            | IRAK4; interleukin-1 receptor-associated kinase 4; IPD1; REN64; IRAK-4; NY-REN-64; renal carcinoma antigen NY-REN-64; |
| Entrez Gene ID      | <a href="#">51135</a>                                                                                                 |
| Protein Refseq      | <a href="#">NP_001107654</a>                                                                                          |
| UniProt ID          | <a href="#">B4E359</a>                                                                                                |
| Chromosome Location | 12q12                                                                                                                 |
| Pathway             | AGE/RAGE pathway; Apoptosis; Cytokine Signaling in Immune system; IL1-mediated signaling events                       |
| Function            | ATP binding; interleukin-1 receptor binding; magnesium ion binding; protein binding                                   |