

KD-Validated Anti-IRAK3 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1959**Specification****KD-Validated Anti-IRAK3 Rabbit Monoclonal Antibody - Product Information**

| | |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application | WB, FC, ICC |
| Primary Accession | Q9Y616 |
| Reactivity | Human |
| Clonality | Monoclonal |
| Isotype | Rabbit IgG |
| Calculated MW | Predicted, 68 kDa , observed, 68 kDa KDa |
| Gene Name | IRAK3 |
| Aliases | Interleukin 1 Receptor Associated Kinase 3; Interleukin-1 Receptor-Associated Kinase 3; IRAK-M \square Inactive IL-1 Receptor-Associated Kinase 3; IL-1 Receptor-Associated Kinase M; IRAK-3; ASRT5; IRAKM |
| Immunogen | A synthesized peptide derived from human IRAK3 |

KD-Validated Anti-IRAK3 Rabbit Monoclonal Antibody - Additional Information**Gene ID** 11213**Other Names**

Interleukin-1 receptor-associated kinase 3, IRAK-3, IL-1 receptor-associated kinase M, IRAK-M, Inactive IL-1 receptor-associated kinase 3, IRAK3 {ECO:0000312|EMBL:AAH57800.1}

KD-Validated Anti-IRAK3 Rabbit Monoclonal Antibody - Protein Information**Name** IRAK3 {ECO:0000312|EMBL:AAH57800.1}**Function**

Putative inactive protein kinase which regulates signaling downstream of immune receptors including IL1R and Toll-like receptors (PubMed:10383454, PubMed:29686383). Inhibits dissociation of IRAK1 and IRAK4 from the Toll-like receptor signaling complex by either inhibiting the phosphorylation of IRAK1 and IRAK4 or stabilizing the receptor complex (By similarity). Upon IL33-induced lung inflammation, positively regulates expression of IL6, CSF3, CXCL2 and CCL5 mRNAs in dendritic cells (PubMed:29686383).

Cellular Location

Cytoplasm. Nucleus. Note=In dendritic cells, translocates into the nucleus upon IL33 stimulation. {ECO:0000250|UniProtKB:Q8K4B2}

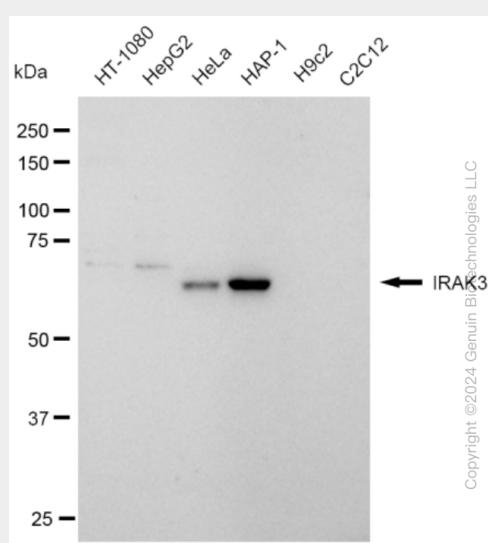
Tissue Location

Expressed in eosinophils, dendritic cells and/or monocytes (at protein level) (PubMed:29686383).
Expressed predominantly in peripheral blood lymphocytes (PubMed:10383454)

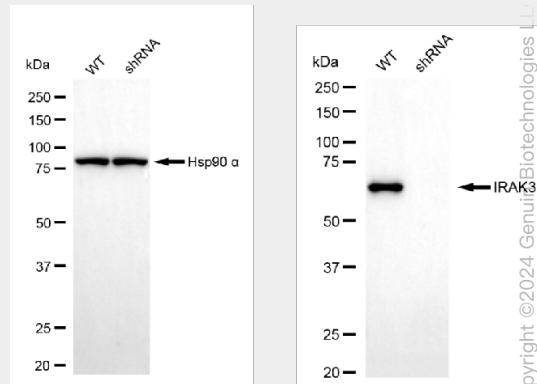
KD-Validated Anti-IRAK3 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

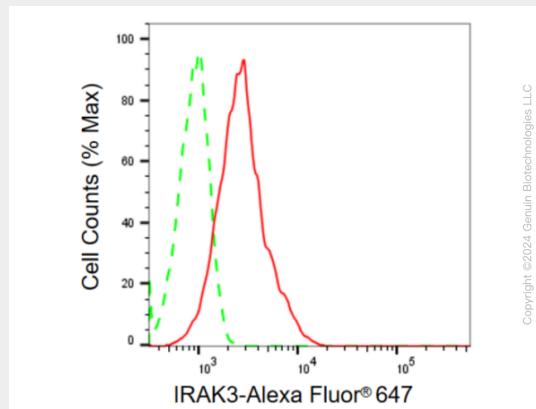
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-IRAK3 Rabbit Monoclonal Antibody - Images

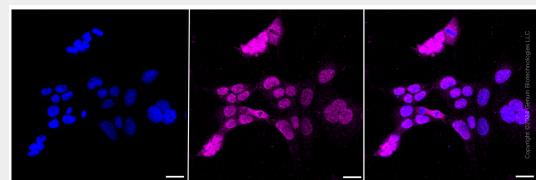
Western blotting analysis using anti-IRAK3 antibody (Cat#AGI1959). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-IRAK3 antibody (Cat#AGI1959, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-IRAK3 antibody (Cat#AGI1959). IRAK3 expression in wild type (WT) and IRAK3 shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-IRAK3 antibody (Cat#AGI1959, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of IRAK3 in HAP-1 cells using IRAK3 antibody (Cat#AGI1959, 1:2,000). Green, isotype control; red, IRAK3.



Immunocytochemical staining of HAP-1 cells with IRAK3 antibody (Cat#AGI1959, 1:1,000). Nuclei were stained blue with DAPI; IRAK3 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.