10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# TRIM14 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10720

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | Q14142 |
| **Other Accession** | NM_014788, NP_055603 |
| **Reactivity** | Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine |
| **Predicted** | Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 49773 |

## Additional Information

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| **Gene ID** | 9830 |
| **Other Names** | Tripartite motif-containing protein 14, TRIM14, KIAA0129 |
| **Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Reconstitution & Storage** | Add 100 ul of distilled water. Final anti-TRIM14 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| **Precautions** | TRIM14 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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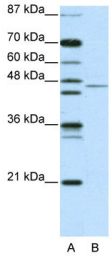
| **Name** | TRIM14 |
| **Synonyms** | KIAA0129 |
| **Function** | Plays an essential role in the innate immune defense against viruses and bacteria (PubMed:30150992, PubMed:32404352). Promotes the 'Lys-48'-linked ubiquitination and subsequent degradation of hepatitis C virus NS5A leading to the inhibition of viral replication (PubMed:27578425). Also plays a role in the inhibition of ebolavirus infection by enhancing IFN-beta and NF-kappa-B activation after binding to the viral protein NP (PubMed:37562033). Facilitates the type I IFN response by interacting with MAVS at the outer mitochondria membrane and thereby recruiting NF-kappa-B essential modulator IKBKG/NEMO to the MAVS signalosome, leading to the activation of both the IFN regulatory factor 3/IRF3 and NF-kappa-B pathways (PubMed:24379373). |

Positively regulates the CGAS-induced type I interferon signaling pathway by stabilizing CGAS and inhibiting its autophagic degradation (PubMed:27666593). Acts as a scaffold between TBK1 and STAT3 to promote phosphorylation of STAT3 and resolve interferon-stimulated gene (ISG) expression (PubMed:32404352). Inhibits the transcriptional activity of SPI1 in a dose-dependent manner (By similarity). Also inhibits OPTN- mediated selective autophagic degradation of KDM4D and thereby negatively regulates H3K9me2 and H3K9me3. Mechanistically, recruits USP14 to remove the 'Lys-63'-linked ubiquitination of KDM4D, preventing its recognition by OPTN and subsequent degradation (PubMed:35145029).

**Cellular Location** Mitochondrion outer membrane. Cytoplasmic vesicle, phagosome. Nucleus

**Tissue Location** Highest expression in liver; undetectable in skeletal muscle

## Images




WB Suggested Anti-TRIM14 Antibody Titration: 2.5 µg/ml
Positive Control: Jurkat Whole CellTRIM14 is strongly supported by BioGPS gene expression data to be expressed in Human Jurkat cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.