

#13689 Store at -20°C

TRIAD1 Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|---------|-------------|-----------------|
| WB | H M R Mk | Endogenous | 58 | Rabbit | #O95376 | 10425 |

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| Product Usage Information | Application Western Blotting | Dilution 1:1000 |
| Storage | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody. | |
| Specificity / Sensitivity | TRIAD1 Antibody recognizes endogenous levels of total TRIAD1 protein. Based upon sequence alignment, this antibody is not predicted to cross-react with HHARI/ARIH1. | |
| Species predicted to react based on 100% sequence homology: | Chicken, Bovine, Dog, Pig, Horse | |
| Source / Purification | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human TRIAD1 protein. Antibodies are purified by protein A and peptide affinity chromatography. | |
| Background | The E3 ubiquitin-protein ligase ARIH2 (TRIAD1) is an Ariadne subfamily ligase involved in the polyubiquitination of proteins designated for proteasomal degradation. The TRIAD1 nuclear protein contains an amino-terminal acidic region, a pair of RING fingers, two carboxyl-terminal coiled coil domains and a novel C6HC DRIL/IBR domain located between the RING fingers. Together, the paired RING fingers and DRIL/IBR domain form a highly conserved TRIAD (two RING fingers and DRIL) domain (1). Research studies suggest that TRIAD1 mediates both Lys48 and Lys63 protein polyubiquitination and acts as a negative regulator of myelopoiesis. TRIAD1 ubiquitin ligase inhibits myeloid cell proliferation by mediating protein ubiquitination through the ubiquitin-conjugating enzymes UbcH7 and UbcH13 (2,3). Experimental deletion of TRIAD1 in mice has a lethal effect, leading to death at the embryonic stage or later due to a severe, multi-organ inflammatory response. Results indicate that TRIAD1 binds IκBβ in dendritic cells and promotes the degradation of the NF-κB inhibitor (4). | |
| Background References | 1. van der Reijden, B.A. et al. (1999) <i>Protein Sci</i> 8, 1557-61. 2. Marteijn, J.A. et al. (2005) <i>Blood</i> 106, 4114-23. 3. Marteijn, J.A. et al. (2009) <i>Leukemia</i> 23, 1480-9. 4. Lin, A.E. et al. (2013) <i>Nat Immunol</i> 14, 27-33. | |

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| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Western Blot Buffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
| Applications Key | WB: Western Blotting |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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