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KD-Validated Anti-Purified ARIH2 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2017

Product Information

Application	WB
Primary Accession	O95376
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB8000
Calculated MW	57819
Gene Name	ARIH2
Aliases	ARIH2; Ariadne RBR E3 Ubiquitin Protein Ligase 2; TRIAD1; All-Trans Retinoic Acid Inducible RING Finger; RING-Type E3 Ubiquitin Transferase ARIH2; E3 Ubiquitin-Protein Ligase ARIH2; Protein Ariadne-2 Homolog; ARI2; Ariadne (Drosophila) Homolog 2; Ariadne Homolog 2 (Drosophila); Ariadne Homolog 2; Triad1 Protein; EC 2.3.2.31; ARI-2
Immunogen	Recombinant protein of human ARIH2

Additional Information

Gene ID	10425
Other Names	E3 ubiquitin-protein ligase ARIH2, ARI-2, Protein ariadne-2 homolog, 2.3.2.31, Triad1 protein, ARIH2 {ECO:0000303|PubMed:31253590, ECO:0000312|HGNC:HGNC:690}

Protein Information

Name	ARIH2 {ECO:0000303|PubMed:31253590, ECO:0000312|HGNC:HGNC:690}
Function	E3 ubiquitin-protein ligase, which catalyzes ubiquitination of target proteins together with ubiquitin-conjugating enzyme E2 UBE2L3 (PubMed:16118314, PubMed:17646546, PubMed:19340006, PubMed:24076655, PubMed:33268465, PubMed:34518685, PubMed:38418882). Acts as an atypical E3 ubiquitin-protein ligase by working together with cullin-5-RING ubiquitin ligase complex (ECS complex, also named CRL5 complex) and initiating ubiquitination of ECS substrates: associates with ECS complex and specifically mediates addition of the first ubiquitin on ECS targets (PubMed:33268465, PubMed:34518685, PubMed:38418882). The initial ubiquitin is then elongated (PubMed:33268465). E3 ubiquitin- protein ligase activity is activated upon binding to neddylated form of the cullin-5 (CUL5) component of the ECS complex (PubMed:24076655). Together with the ECS(ASB9) complex, catalyzes ubiquitination of CKB (PubMed:33268465).

	Promotes ubiquitination of DCUN1D1 (PubMed:30587576). Mediates 'Lys-6', 'Lys-48'- and 'Lys-63'-linked polyubiquitination (PubMed:16118314, PubMed:17646546, PubMed:19340006). May play a role in myelopoiesis (PubMed:19340006).
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Widely expressed with higher expression in granulocytes.

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