

ARIH2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54877**Specification****ARIH2 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	O95376
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ARIH2
Epitope Specificity	41-140/493
Isotype	IgG
Purity	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm.
SIMILARITY	Belongs to the RBR family. Ariadne subfamily. Contains 1 IBR-type zinc finger. Contains 2 RING-type zinc fingers. Interacts (via RING-type 1) with UBE2L3. Interacts (via RING-type 2) with UBE2N. Interacts (via RING-type 2) with GFI1B. Interacts with GFI1; prevents its ubiquitination and proteasomal degradation.
Post-translational modifications	Ubiquitinated. Ubiquitination promotes proteasomal degradation. Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

TRIAD1, also known as ARIH2 (ariadne homolog 2) or ARI2, is a 493 amino acid protein that contains one IBR-type zinc finger and two RING-type zinc fingers and belongs to the ariadne subfamily of RBR proteins. Localized to the nucleus, TRIAD1 interacts with UBE2L3 and is thought to act as an E3 ubiquitin-protein ligase, functioning to accept ubiquitin from E2 ubiquitin-conjugating enzymes and transfer the acquired ubiquitin residue to target substrates. TRIAD1 is subject to post-translational DNA damage-dependent phosphorylation, probably by ATM or ATR. The gene encoding TRIAD1 maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

ARIH2 Polyclonal Antibody - Additional Information

Gene ID 10425

Other Names

E3 ubiquitin-protein ligase ARIH2, ARI-2, Protein ariadne-2 homolog, 2.3.2.31, RING-type E3 ubiquitin transferase ARIH2, Triad1 protein, ARIH2, ARI2, TRIAD1
{ECO:0000303|PubMed:16118314}

Target/Specificity

Widely expressed with higher expression in granulocytes.

Dilution

WB~~1:1000
IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A
E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

ARIH2 Polyclonal Antibody - 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

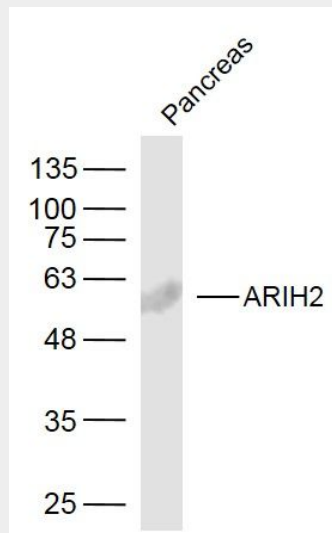
Tissue Location

Widely expressed with higher expression in granulocytes.

ARIH2 Polyclonal 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](#)

ARIH2 Polyclonal Antibody - Images**Sample:**

Pancreas (Mouse) Lysate at 40 ug

Primary: Anti-ARIH2 (bs-12521R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 58 kD

Observed band size: 58 kD