

ARG55235 anti-ITPA antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ITPA
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Bov, Chk, Xenopus
Tested Application	FACS, ICC/IF, IHC, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ITPA
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 24-51 (N-terminus) of Human ITPA.
Conjugation	Un-conjugated
Alternate Names	Inosine triphosphatase; My049; EC 3.6.1.19; Inosine triphosphate pyrophosphatase; Non-canonical purine NTP pyrophosphatase; NTPase; C20orf37; Putative oncogene protein hlc14-06-p; ITPase; HLC14-06-P; Nucleoside-triphosphate diphosphatase; Nucleoside-triphosphate pyrophosphatase; dJ794I6.3; Non-standard purine NTP pyrophosphatase

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	ICC/IF	1:25
	IHC	1:50 - 1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

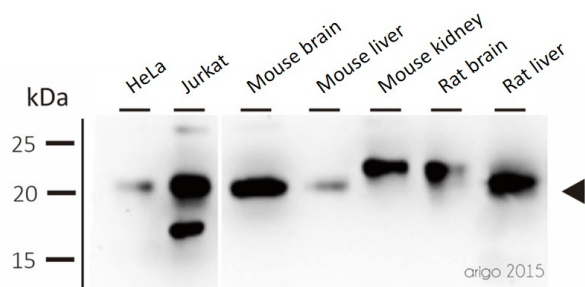
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

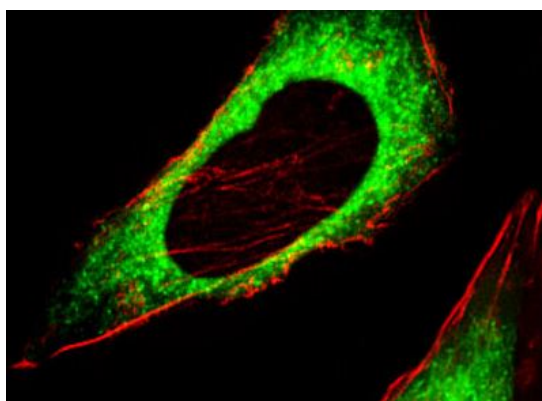
Gene Symbol	ITPA
Gene Full Name	inosine triphosphatase (nucleoside triphosphate pyrophosphatase)
Background	This gene encodes an inosine triphosphate pyrophosphohydrolase. The encoded protein hydrolyzes inosine triphosphate and deoxyinosine triphosphate to the monophosphate nucleotide and diphosphate. This protein, which is a member of the HAM1 NTPase protein family, is found in the cytoplasm and acts as a homodimer. Defects in the encoded protein can result in inosine triphosphate pyrophosphorylase deficiency which causes an accumulation of ITP in red blood cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]
Function	Pyrophosphatase that hydrolyzes the non-canonical purine nucleotides inosine triphosphate (ITP), deoxyinosine triphosphate (dITP) as well as 2'-deoxy-N-6-hydroxylaminopurine triphosphate (dHATP) and xanthosine 5'-triphosphate (XTP) to their respective monophosphate derivatives. The enzyme does not distinguish between the deoxy- and ribose forms. Probably excludes non-canonical purines from RNA and DNA precursor pools, thus preventing their incorporation into RNA and DNA and avoiding chromosomal lesions. [UniProt]
Research Area	Metabolism antibody; Signaling Transduction antibody
Calculated Mw	21 kDa
Cellular Localization	Cytoplasm {ECO:0000255 HAMAP-Rule:MF_03148, ECO:0000269 PubMed:11278832}

Images



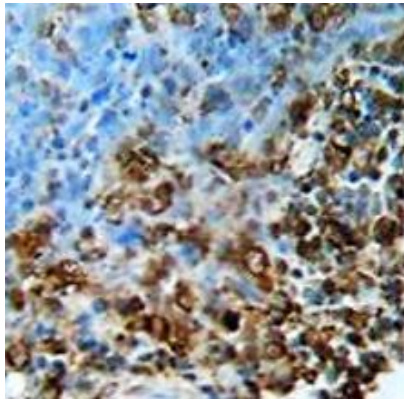
ARG55235 anti-ITPA antibody WB image

Western blot: 30 µg of HeLa, Jurkat, Mouse brain, Mouse liver, Mouse kidney, Rat brain and Rat liver lysates stained with ARG55235 anti-ITPA antibody at 1:500 dilution.



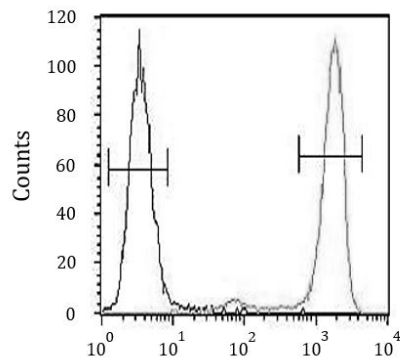
ARG55235 anti-ITPA antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG55235 anti-ITPA antibody (green) at 1:25 dilution. Cytoplasmic actin was counterstained with Dylight Fluor® 554 conjugated Phalloidin (red).



ARG55235 anti-ITPA antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human lung carcinoma stained with ARG55235 anti-ITPA antibody.



ARG55235 anti-ITPA antibody FACS image

Flow Cytometry: A375 cells stained with ARG55235 anti-ITPA antibody (right histogram) or without primary antibody control (left histogram), followed by incubation with FITC labelled secondary antibody.