

ARG44453 anti-IMPAD1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes IMPAD1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Target Name	IMPAD1
Species	Human
Immunogen	Human IMPAD1 recombinant protein
Conjugation	Un-conjugated
Alternate Names	BPNT2; 3'(2'), 5'-Bisphosphate Nucleotidase 2; IMPA3; GPAPP; Golgi-Resident Adenosine 3',5'-Bisphosphate 3'-Phosphatase; IMPAD1; Inositol Monophosphatase Domain-Containing Protein 1; Inositol Monophosphatase Domain Containing 1; Phosphoadenosine Phosphate 3'-Nucleotidase; Golgi-Resident Nucleotide Phosphatase; Myo-Inositol Monophosphatase A3; Golgi-Resident PAP Phosphatase

Application Instructions

Application table	Application	Dilution
	FACS	1-3 µg/1x10 ⁶
	ICC/IF	5 µg/ml
	IHC-P	1-2 µg/ml
	WB	0.1-0.25 µg/ml

Application Note The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

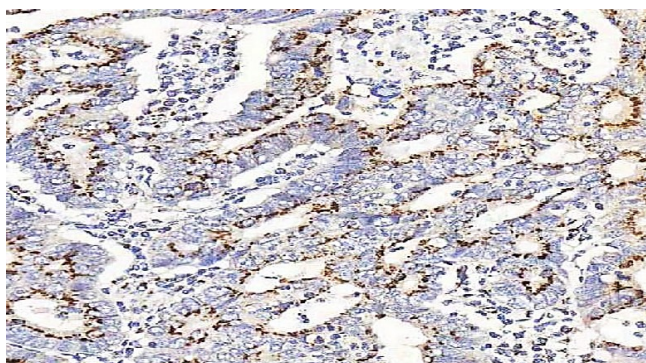
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a 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.

Bioinformation

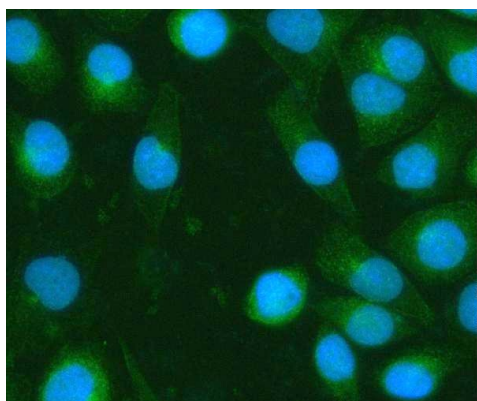
Gene Symbol	BPNT2
Gene Full Name	3'(2'), 5'-Bisphosphate Nucleotidase 2
Background	This gene encodes a member of the inositol monophosphatase family. The encoded protein is localized to the Golgi apparatus and catalyzes the hydrolysis of phosphoadenosine phosphate (PAP) to adenosine monophosphate (AMP). Mutations in this gene are a cause of GRAPP type chondrodysplasia with joint dislocations, and a pseudogene of this gene is located on the long arm of chromosome 1.
Function	Exhibits 3'-nucleotidase activity toward adenosine 3',5'-bisphosphate (PAP), namely hydrolyzes adenosine 3',5'-bisphosphate into adenosine 5'-monophosphate (AMP) and a phosphate. May play a role in the formation of skeletal elements derived through endochondral ossification, possibly by clearing adenosine 3',5'-bisphosphate produced by Golgi sulfotransferases during glycosaminoglycan sulfation. Has no activity toward 3'-phosphoadenosine 5'-phosphosulfate (PAPS) or inositol phosphate (IP) substrates including I1P, I(1,4)P2, I(1,3,4)P3, I(1,4,5)P3 and I(1,3,4,5)P4.
Calculated Mw	39 kDa
PTM	Acetylation, Glycoprotein
Cellular Localization	Golgi apparatus, Membrane

Images



ARG44453 anti-IMPAD1 antibody IHC-P image

Immunohistochemistry: Human colon adenocarcinoma stained with ARG44453 anti-IMPAD1 antibody at 2 μ g/mL dilution.

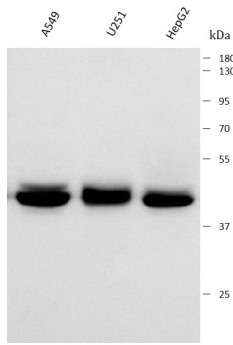


ARG44453 anti-IMPAD1 antibody ICC/IF image

Immunofluorescence: SiHa stained with ARG44453 anti-IMPAD1 antibody at 5 μ g/mL dilution.

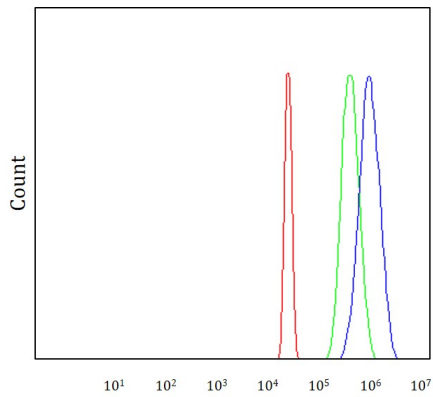
ARG44453 anti-IMPAD1 antibody WB image

Western blot: A549, U251 and HepG2 stained with ARG44453 anti-IMPAD1 antibody at 0.5 $\mu\text{g}/\text{mL}$ dilution.



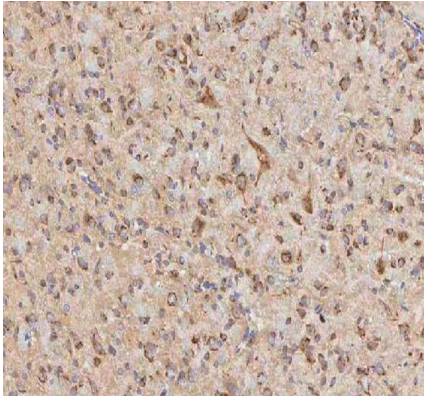
ARG44453 anti-IMPAD1 antibody FACS image

Flow Cytometry: HepG2 stained with ARG44453 anti-IMPAD1 antibody at 1 $\mu\text{g}/10^6$ cells dilution.



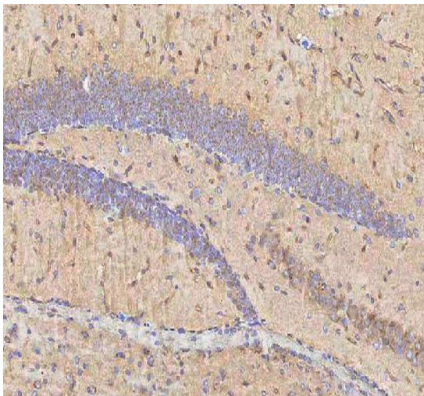
ARG44453 anti-IMPAD1 antibody IHC-P image

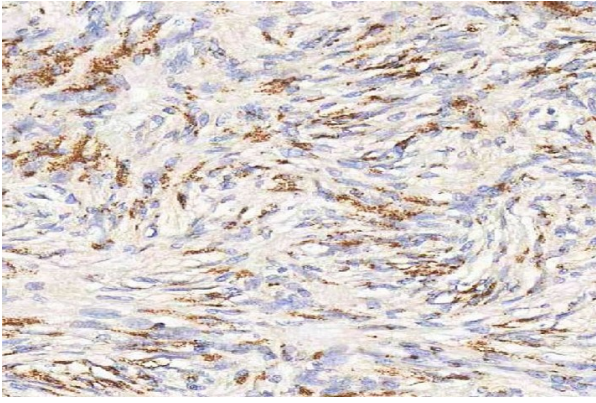
Immunohistochemistry: Rat brain stained with ARG44453 anti-IMPAD1 antibody at 2 $\mu\text{g}/\text{mL}$ dilution.



ARG44453 anti-IMPAD1 antibody IHC-P image

Immunohistochemistry: Mouse brain stained with ARG44453 anti-IMPAD1 antibody at 2 $\mu\text{g}/\text{mL}$ dilution.





ARG44453 anti-IMPAD1 antibody IHC-P image

Immunohistochemistry: Human meningioma stained with ARG44453 anti-IMPAD1 antibody at 2 μ g/mL dilution.