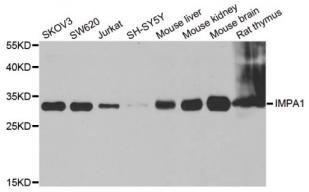
Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

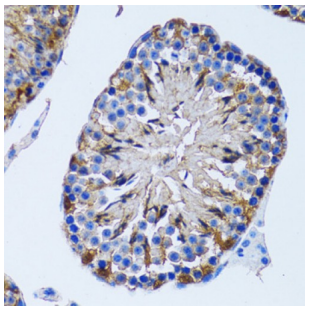
DATASHEET

Inositol Monophosphatase 1 (IMPA1) Antibody

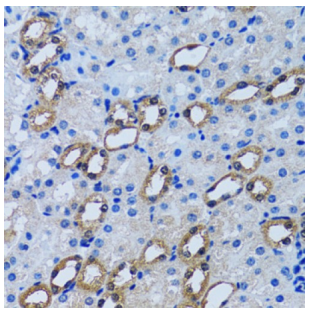
Catalogue No.:abx004879



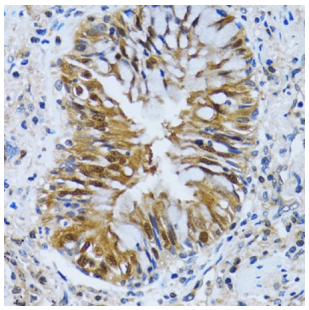
Western blot analysis of extracts of various cell lines, using IMPA1 antibody (abx004879) at 1/1000 dilution.



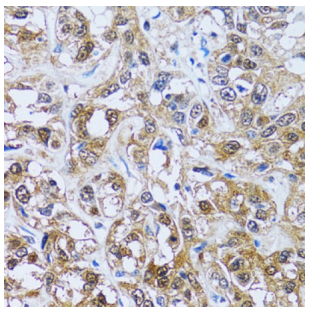
Immunohistochemistry of paraffin-embedded rat testis using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).



Immunohistochemistry of paraffin-embedded rat kidney using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).

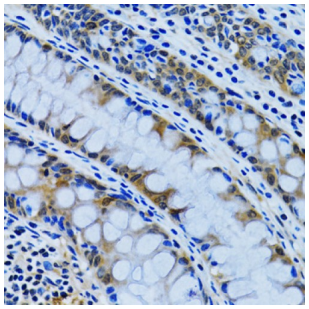


Immunohistochemistry of paraffin-embedded human lung cancer using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).

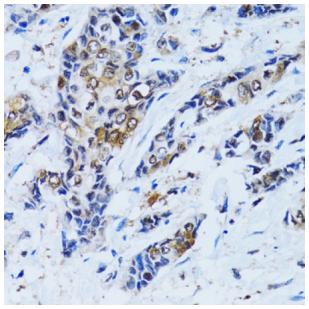


Immunohistochemistry of paraffin-embedded human liver cancer using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).

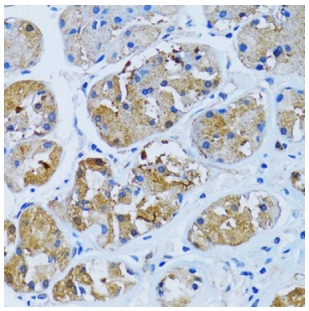
Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com



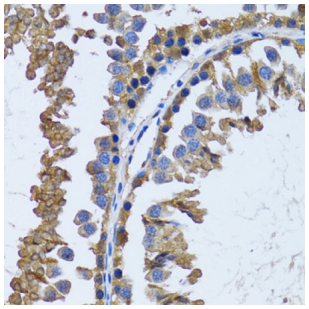
Immunohistochemistry of paraffin-embedded human colon using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).



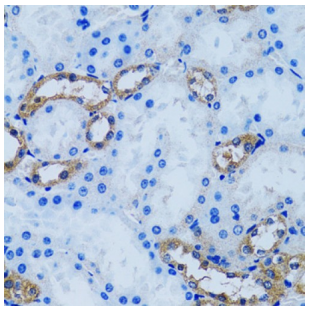
Immunohistochemistry of paraffin-embedded human breast cancer using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).



Immunohistochemistry of paraffin-embedded human stomach using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).



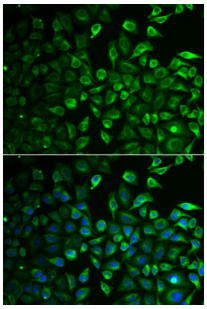
Immunohistochemistry of paraffin-embedded mouse testis using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse kidney using IMPA1 antibody (abx004879) at dilution of 1/100 (40x lens).

Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

DATASHEET



Immunofluorescence analysis of A549 cells using IMPA1 antibody (abx004879). Blue: DAPI for nuclear staining.

IMPA1 Antibody is a Rabbit Polyclonal antibody against IMPA1. This gene encodes an enyzme that dephosphorylates myo-inositol monophosphate to generate free myo-inositol, a precursor of phosphatidylinositol, and is therefore an important modulator of intracellular signal transduction via the production of the second messengers myoinositol 1,4,5-trisphosphate and diacylglycerol. This enzyme can also use myo-inositol-1,3-diphosphate, myo-inositol-1,4-diphosphate, scyllo-inositol-phosphate, glucose-1-phosphate, glucose-6-phosphate, fructose-1-phosphate, beta-glycerophosphate, and 2'-AMP as substrates. This enzyme shows magnesium-dependent phosphatase activity and is inhibited by therapeutic concentrations of lithium. Inhibition of inositol monophosphate hydroylosis and subsequent depletion of inositol for phosphatidylinositol synthesis may explain the anti-manic and anti-depressive effects of lithium administered to treat bipolar disorder. Alternative splicing results in multiple transcript variants encoding distinct isoforms. A pseudogene of this gene is also present on chromosome 8q21.13.

Target:	IMPA1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Tested Applications:	WB, IHC, IF/ICC
Recommended dilutions:	WB: 1/500 - 1/2000, IHC: 1/50 - 1/200, IF/ICC: 1/10 - 1/100. Optimal dilutions/concentrations should be determined by the end user.
Immunogen:	Recombinant protein of human IMPA1.
Purification:	Affinity purified.
Form:	Liquid
Isotype:	IgG
Conjugation:	Unconjugated
Storage:	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

Abbexa Ltd, Innovation Centre, Cambridge Science Park, Cambridge, CB4 0EY, UK
Telephone: +44 (0) 1223 755950 - Fax: +44 (0) 1223 755951 - E-Mail: info@abbexa.com

DATASHEET

Molecular Weight:	Calculated MW: 21 kDa/30 kDa/36 kDa Observed MW: 30 kDa
Swiss Prot:	P29218
GeneID:	3612
Gene Symbol:	IMPA1
Concentration:	> 1 mg/ml
Buffer:	PBS, pH 7.3, 0.02% sodium azide, 50% glycerol.
Note:	This product is for research use only.