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# IMPA1 Rabbit pAb

货号: **AYP16760**

## 产品信息

反应	Human,Mouse,Rat
宿主	Rabbit
克隆性	Polyclonal
预测反应	
应用	WB IHC IF/ICC
推荐浓度	<b>WB:</b> 1:500 - 1:2000 <b>IHC:</b> 1:50 - 1:200 <b>IF/ICC:</b> 1:10 - 1:100
理论分子量	21kDa/30kDa/36kDa
实测分子量	30kDa
形式	Liquid
保存条件	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	SKOV3,SW620,Jurkat,SH-SY5Y,Mouse liver,Mouse kidney,Mouse brain,Rat kidney
细胞定位	Cytoplasm
纯化	Affinity purification

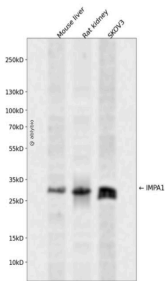
## 抗原信息

抗原信息	Recombinant fusion protein containing a sequence corresponding to amino acids 1-277 of human IMPA1 (NP_005527.1).
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## 靶点信息

研究背景	This gene encodes an enzyme 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 hydrolysis 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.
基因ID	3612
基因名	IMPA1
Swiss	P29218 ( <a href="https://www.uniprot.org/uniprotkb/P29218/entry">https://www.uniprot.org/uniprotkb/P29218/entry</a> )
别名	IMPA1,IMP,IMPA,MRT59,IMPA1 Rabbit pAb,D-galactose 1-phosphate phosphatase,Inositol-1(or 4)-monophosphatase 1,Lithium-sensitive myo-inositol monophosphatase A1

## 产品验证



Western blot analysis of IMPA1 expressed in Mouse liver, Rat kidney, SKOV3 using IMPA1 Rabbit pAb at 1:1000. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:5000. Lysates/proteins: 30ug per lane. Blocking buffer: 5% non-fat dry milk in TBST. Detection: ECL Enhanced Kit. Exposure time: 120s.

## 实验步骤

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