IMPDH1 rabbit monoclonal antibody

Catalog # H00003614-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human IMPDH1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human IMPDH1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human IMPDH1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — IMPDH1

Entrez GeneID	3614
GeneBank Accession#	IMPDH1
Gene Name	IMPDH1
Gene Alias	DKFZp781N0678, IMPD, IMPD1, LCA11, RP10, sWSS2608
Gene Description	IMP (inosine monophosphate) dehydrogenase 1
Omim ID	146690 180105
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene acts as a homotetramer to regulate cell growth. The encoded pr otein is an enzyme that catalyzes the synthesis of xanthine monophosphate (XMP) from inosine-5' -monophosphate (IMP). This is the rate-limiting step in the de novo synthesis of guanine nucleotid es. Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10). Several transcript var iants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	inosine monophosphate dehydrogenase 1

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Drug metabolism - other enzymes
- Metabolic pathways
- Purine metabolism

Disease

- Acute Disease
- Gastroenteritis
- Genetic Predisposition to Disease

- Inflammatory Bowel Diseases
- Kidney Failure
- Refractive Errors
- Retinal Diseases
- Retinitis Pigmentosa