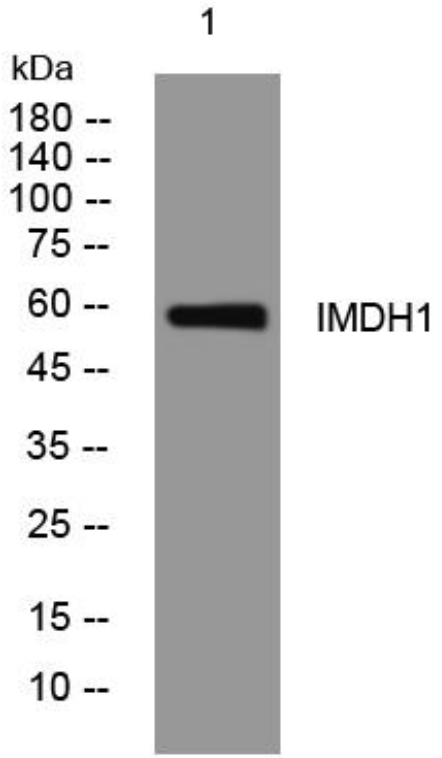
IMDH1 mouse mAb

Catalog No	BYmab-11428
Isotype	IgG
Reactivity	Human; Mouse;Rat
Applications	WB
Gene Name	IMPDH1 IMPD1
Protein Name	IMDH1
Immunogen	Synthesized peptide derived from human IMDH1 AA range: 304-354
Specificity	This antibody detects endogenous levels of IMDH1 at Human/Mouse/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	Cytoplasm . Nucleus .
Tissue Specificity	IMP type I is the main species in normal leukocytes and type II predominates over type I in the tumor.
Function	catalytic activity:Inosine 5'-phosphate + NAD(+) + H(2)O = xanthosine 5'-phosphate + NADH.,cofactor:Potassium.,disease:Defects in IMPDH1 are the cause of retinitis pigmentosa type 10 (RP10) [MIM:180105]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP10 inheritance is autosomal dominant.,function:Rate limiting enzyme in the de novo synthesis of guanine nucleotides and therefore is involved in the regulation of cell growth. It may also have a role in the development of malignancy and the growth progression of some tumors.,online information:Retina International's Scientific Newsletter,pathway:Purine metabolism; XMP biosynthesis via de novo pathway; XMP from IMP: step 1/1.,similar

Background	The protein encoded by this gene acts as a homotetramer to regulate cell growth. The encoded protein 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 nucleotides. Defects in this gene are a cause of retinitis pigmentosa type 10 (RP10). Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using IMDH1 mouse mAb