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Anti-Cathepsin D Rabbit mAb [12B24]

Catalog No.: A52043

Basic Information

Catalog No. (Cat.No.)	A52043
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Cathepsin D,DCP,P68,LYSOSOMAL PROTEASE D

Product Information

Target	Cathepsin D
Molecular Weight(Calculated)	44 kDa
Molecular Weight(Observed)	44 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	12B24
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Cathepsin-D
Gene Name	*CTSD*
Domain	NA
Background	Cathepsin D is a member of aspartic protease family and performs lysosomal proteolytic processing functions. It is synthesized as inactive pro-Cathepsin D zymogen, delivered to lysosomes and proteolytically activated under acidic lysosomal condition to degrade aged intracellular proteins and endocytosed exogenous substrates. Beyond lysosomal compartment, Cathepsin D can be secreted into extracellular matrix to drive matrix remodeling and apoptosis regulation. Upregulated Cathepsin D is frequently observed in breast, ovarian and multiple cancers; it degrades basement membrane components to facilitate tumor invasion and metastasis, and participates in tumor microenvironment modulation, autophagy and cellular stress response. Its expression serves as a potential prognostic biomarker for certain malignancies and is widely investigated in tumor pathology and lysosome biology.