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Anti-Optineurin Rabbit mAb [16G94]

Catalog No.: A52250

Basic Information

Catalog No. (Cat.No.)	A52250
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	Optineurin,Optineurin-1,OPTN1

Product Information

Target	Optineurin
Molecular Weight(Calculated)	63 kDa
Molecular Weight(Observed)	74 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	16G94
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	1:200-1:500
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Optineurin
Gene Name	*OPTN*
Domain	NA
Background	OPTN (Optineurin) is a multi-domain adaptor-protein family executing selective autophagy, membrane trafficking and negative modulation of inflammatory signaling. As cytosolic scaffold protein equipped with ubiquitin-binding domains, optineurin recognizes ubiquitinated substrates and damaged organelles to drive selective autophagic clearance of mitochondria and intracellular pathogens. It negatively restrains NF-κB cascade to prevent excessive inflammation and participates in Golgi vesicle trafficking. Mutations in OPTN are linked to open-angle glaucoma and motor-neuron disease. Loss-of-function leads to accumulation of damaged mitochondria and sustained inflammatory signaling. Altered optineurin expression modulates cell survival in tumor and neurodegenerative models.