



Anti-LC3 mAb- HRP-DirectT

Anti-p62 C-terminal pAb- HRP-DirectT

HRP-conjugated antibodies to LC3, an autophagy marker in mammals, and p62, a selective autophagy substrate, are available in HRP-DirectT series.



- ★ Shortened assay times because no secondary antibody is required
- ★ Reduced non-specific reactions originated from secondary antibody

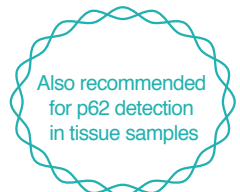
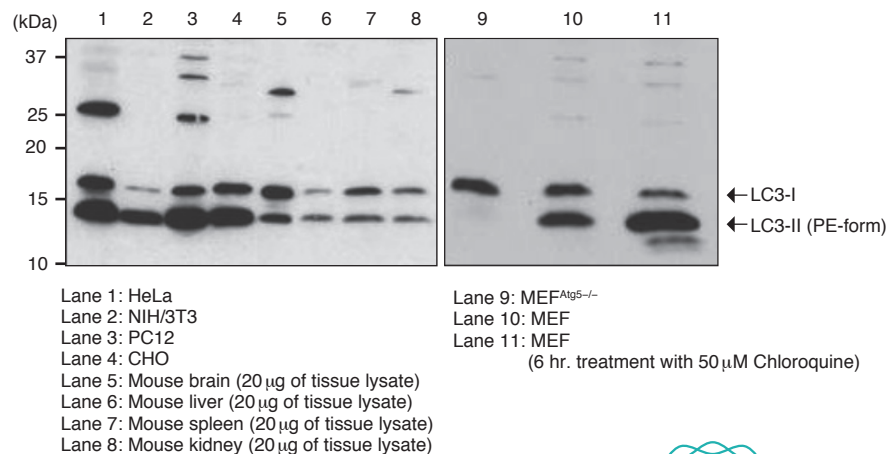


■ Anti-LC3 mAb-HRP-DirectT (MBL Code: M186-7)

LC3 is frequently used as a marker of autophagy in mammals. Post-translational LC3 (pro-LC3) is immediately processed at its C-terminus by Atg4A or Atg4B to become LC3-I. When autophagy is induced, LC3-I is delivered to E1 and E2, and binds to the substrate phosphatidylethanolamine (PE). LC3-PE is known as LC3-II.

The molecular weight of LC3-II is higher than that of LC3-I; however, because it is very hydrophobic, it travels further in an SDS-PAGE gel than LC3-I. Furthermore, GABARAP and GATE-16 are known to bind to PE through a similar process.

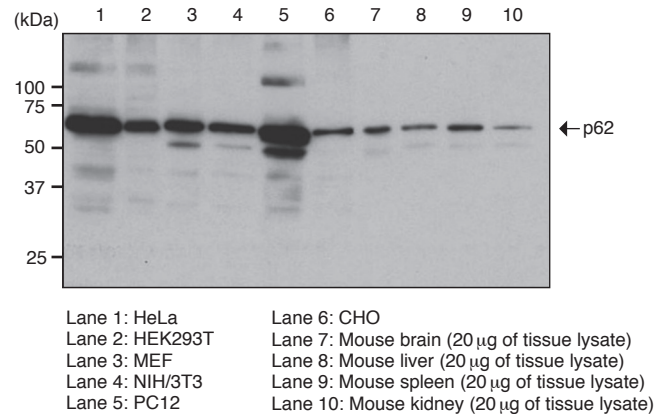
■ Western blotting



■ Anti-p62 C-terminal pAb-HRP-DirectT (MBL Code: PM066-7)

p62/SQSTM1 is a scaffold protein for TRAF6, ERK, and aPKC which are involved in signaling transduction pathways. It was recently established that p62 binds directly to the autophagosome marker LC3 and is selectively degraded during autophagy. In fact, p62 was excessively accumulated and ubiquitin/p62-positive inclusion bodies were formed in mice that were selectively autophagy-deficient in the brain or liver. Importantly, these ubiquitin/p62-positive inclusion bodies were also found in tissues of patients with neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis, as well in alcoholic hepatitis, fatty liver, and liver cancer. Researchers have a lot of attention on the relationship between the autophagy-related deficiency of p62 metabolism and the pathology of neurodegenerative diseases and cancers.

■ Western blotting



Anti-Syntaxin-17 (Human) antibodies

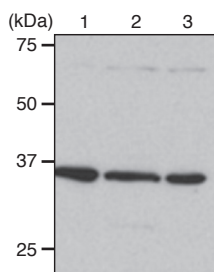
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Syntaxin-17, also known as Stx17, is an autophagosome SNARE protein, which is suggested to be involved in the fusion of autophagosomes and lysosomes.

Another autophagy related protein, Atg14, is present at the initial stage of autophagosome formation. Syntaxin-17 is reported to function in recruiting Atg14 to the mitochondria-associated membrane.

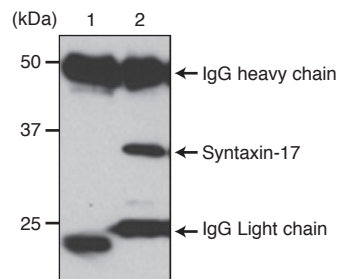
Anti-Syntaxin-17 (Human) monoclonal antibody (Code: M212-3)

Western blotting



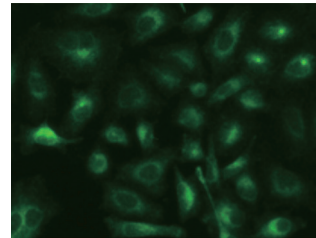
Lane 1: Jurkat
Lane 2: A549
Lane 3: HeLa

Immunoprecipitation



Lane 1: HeLa
Lane 2: Mouse IgG2a (Code: M076-3)
Lane 3: Anti-Syntaxin (Human) mAb (Code: M212-3)

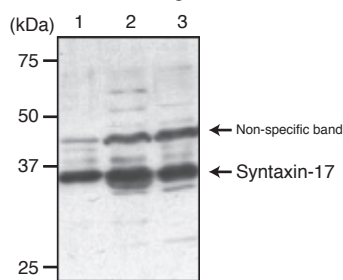
Immunocytochemistry



HeLa cells

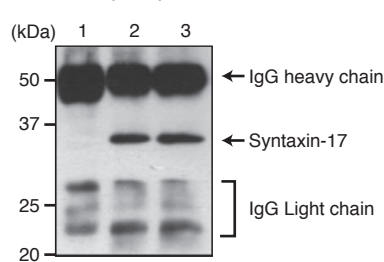
Anti-Syntaxin-17 (Human) polyclonal antibody (Code: PM076)

Western blotting



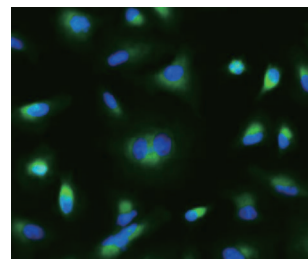
Lane 1: Jurkat
Lane 2: A549
Lane 3: HeLa

Immunoprecipitation



Lane 1: 1 μ L Normal Rabbit IgG (Code: PM035)
Lane 2: 2.5 μ L of Anti-Syntaxin-17 (Human) pAb (Code: PM035)
Lane 3: 5 μ L of Anti-Syntaxin-17 (Human) pAb (Code: PM035)

Immunocytochemistry



Green: Anti-Syntaxin-17 (Human) pAb (Code: PM076)
Blue: DAPI

Code	Product	Clone	Isotype	Size	Applications	Reactivity
M115-3	Anti-LC3 mAb	51-11	Mo IgG1	100 μ g/100 μ L	WB, IH*	Hu, Mo, Rat
M152-3	Anti-LC3 mAb	4E12	Mo IgG1 κ	200 μ g/100 μ L	WB, IC, IP, IH*, FCM, Immuno-EM, Image-based FCM*	Hu, Mo, Rat, Hm
M186-3	Anti-LC3 mAb	8E10	Mo IgG2a κ	100 μ g/100 μ L	WB	Hu, Mo, Rat, Hm
NEW M186-7	Anti-LC3 mAb-HRP-DirecT	8E10	Mo IgG2a κ	50 μ L	WB	Hu, Mo, Rat, Hm
PD014	Anti-LC3 pAb	Polyclonal	Rab IgG	100 μ L	WB, IC*, IH*	Hu, Mo, Rat, Hm
PD015	Anti-LC3 pAb	Polyclonal	Rab IgG	100 μ L	IC	Mo, Rat
PM036	Anti-LC3 pAb	Polyclonal	Rab IgG	100 μ L	WB, IC, IP, IH, FCM	Hu, Mo, Rat, Hm
PM045	Anti-p62 (SQSTM1) pAb	Polyclonal	Rab Ig (aff.)	100 μ L	WB, IC, IP, IH	Hu, Mo, Rat, Hm
M162-3	Anti-p62 (SQSTM1) (Human) mAb	5F2	Mo IgG1 κ	100 μ g/100 μ L	WB, IC, IP, IH, FCM	Hu
M162-A48	Anti-p62 (SQSTM1) (Human) mAb-Alexa Fluor [®] 488	5F2	Mo IgG1 κ	100 μ g/100 μ L	IC, FCM	Hu
M162-A59	Anti-p62 (SQSTM1) (Human) mAb-Alexa Fluor [®] 594	5F2	Mo IgG1 κ	100 μ g/100 μ L	IC	Hu
M162-A64	Anti-p62 (SQSTM1) (Human) mAb-Alexa Fluor [®] 647	5F2	Mo IgG1 κ	100 μ g/100 μ L	IC, FCM	Hu
PM066	Anti-p62 C-terminal pAb	Polyclonal	Guinea Pig Ig (aff.)	100 μ L	WB, IC, IP, IH	Hu, Mo, Rat, Hm
NEW PM066-7	Anti-p62 C-terminal pAb-HRP-DirecT	Polyclonal	Guinea Pig Ig (aff.)	50 μ L	WB	Hu, Mo, Rat, Hm
NEW D343-3	Anti-Phospho-p62 (SQSTM1) mAb	4F6	Rat IgG2a κ	100 μ g/100 μ L	WB, IH	Hu, Mo
NEW D344-3	Anti-Phospho-p62 (SQSTM1) (Ser403) mAb	4C8	Rat IgG2a κ	100 μ g/100 μ L	WB, IH	Hu, Mo
NEW PM074	Anti-Phospho-p62 (SQSTM1) (Ser351) pAb	Polyclonal	Rab Ig (aff.)	100 μ L	WB, IC, IH	Hu, Mo
M212-3	Anti-Syntaxin-17 (Human) mAb	2F8	Mouse IgG2a κ	100 μ g/100 μ L	WB, IC, IP	Hu
PM076	Anti-Syntaxin-17 (Human) pAb	Polyclonal	Rabbit Ig (aff.)	100 μ L	WB, IC, IP	Hu

Reactivity—Hu: Human; Mo: Mouse; Rab: Rabbit; Hm: Hamster; (aff.): affinity purified, Applications—WB: Western Blotting; IP: Immunoprecipitation; FCM: Flow Cytometry; IC: Immunocytochemistry; IH: Immunohistochemistry; Immuno-EM: Immuno-electron microscopy. *: Reported in research papers (Not tested by MBL).

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