

Information regarding new tag antibodies



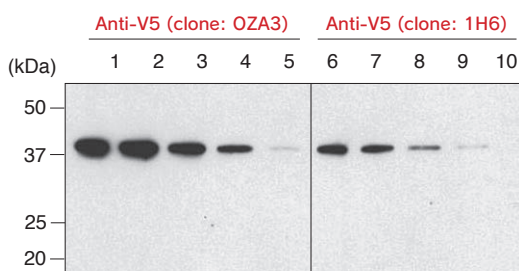
Anti-V5-tag mAb (clone: OZA3)

Code.	Clone	Isotype	Application	Content
M215-3	OZA3	Mouse IgG2b κ	WB/IP/IC/FCM	100 μ g/100 μ L



- Higher performance in WB, IP and IC, compared with existing products (clone: 1H6)!
- HRP-conjugates antibody is also available!

Western blotting High sensitivity



Sample
 Lane1,6 V5-tagged GFP 10 ng
 Lane2,7 V5-tagged GFP 5 ng
 Lane3,8 V5-tagged GFP 2.5 ng
 Lane4,9 V5-tagged GFP 1.25 ng
 Lane5,10 V5-tagged GFP 0.6125 ng/lane

WB primary antibody:
 Anti-V5 mAb (Code. M215-3) 1mg/mL
 Anti-V5 mAb (Code. M167-3) 1mg/mL

[Related products]

Code.	Product name	Clone	Isotype	Application	Package
M215-7	Anti-V5-tag mAb-HRP-Direct	OZA3	Mouse IgG2b κ	WB	100 μ L
M167-3	Anti-V5-tag mAb	1H6	Mouse IgG2a κ	WB/IP/IC	100 μ g/100 μ L
M167-11	Anti-V5-tag mAb-Magnetic beads	1H6	Mouse IgG2a κ	IP	20 tests (Gel: 1 mL)
M167-10	Anti-V5-tag mAb-Magnetic Agarose	1H6	Mouse IgG2a κ	IP	20 tests (Gel: 200 μ L)
PM003	Anti-V5-tag pAb	Polyclonal	Rabbit Ig (aff.)	WB/IP	100 μ L
PM003-7	Anti-V5-tag pAb-HRP-Direct	Polyclonal	Rabbit Ig (aff.)	WB	100 μ L
PM003-8	Anti-V5-tag pAb-Agarose	Polyclonal	Rabbit Ig (aff.)	IP	20 tests (Gel: 200 μ L)

Anti-mini-AID-tag mAb (clone:1E4)

Code.	Clone	Isotype	Application	Package
M214-3	1E4	Mouse IgG2a κ	WB/IP/IC	100 μ g/100 μ L

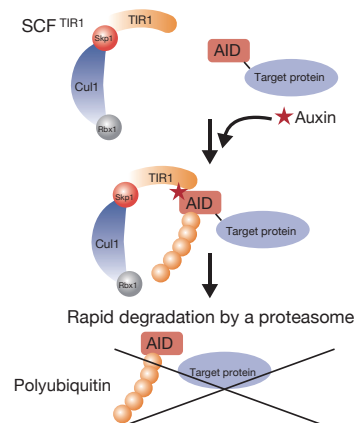


- AID system is a regulation system for protein expression using AID-tag or mini-AID-tag, and was developed by Dr. Masato Kanemaki of the National Institute of Genetics!

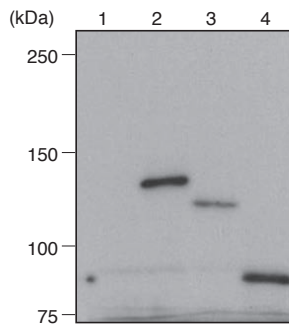
The auxin inducible degron (AID) system is an assay system that can degrade degron (a small domain that can induce protein degradation) fused proteins expressed in cells in a short time by adding auxin. In this system, ubiquitin ligase SCFTIR1 and Aux/IAA (AID-tag) fused target protein are co-expressed using respective vector. After adding auxin, AID-tagged protein are rapidly degraded by proteasome. AID system allows auxin-induced ubiquitin-proteasome system is reproduced in non-plant cells. mini-AID-tag, improved version of AID-tag, is 8 kDa while AID-tag is 25 kDa. This antibody detects both mini-AID-tag and AID-tag.

<References>

- 1) Kubota T, Nishimura K, Kanemaki MT, Donaldson AD. The Elg1 Replication Factor C-like Complex Functions in PCNA Unloading during DNA Replication. *Molecular Cell*, 50, 273-280, 2013
- 2) Nishimura K, Kanemaki MT. Rapid Depletion of Budding Yeast Proteins via the Fusion of an Auxin-Inducible Degron (AID). *Current Protocols in Cell Biology*, 64, 20.9.1-20.9.16, 2014

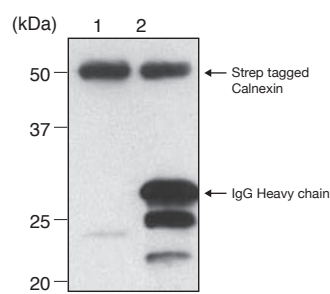


Western blotting



Sample
Lane 1: *S. cerevisiae*
Lane 2: AID-tagged Mcm4/*S. cerevisiae*
Lane 3: mini-AID-tagged Mcm4/*S. cerevisiae*
Lane 4: 3 x mini-AID-tagged Mcm10/*S. cerevisiae*

Immunoprecipitation



Sample*: His-tagged AID (full-length) expressed in *E. coli*
Lane 1: Mouse IgG2a (Code. M076-3)
Lane 2: Anti-mini-AID-tag mAb (Code. M214-3)

*Samples were provided courtesy of Dr. Kanemaki of the National Institute of Genetics.

Functional grade isotype control antibodies

Functional grade mouse IgM isotype control antibodies are now available!



- Low endotoxin (IgG: 0.5 EU/mg. *M079-3M2 is \leq 5EU)
- High concentration (5 mg/mL) (*M079-3M2 is 1 mg/mL)
- Without preservative agents, filter sterilized with a 0.22 μ m filter
- Recommended for use as a control for *in vitro* or *in vivo* evaluation of functional antibodies

Code.	Product name	Clone	Package
New M079-3M2	Mouse IgM (isotype control) (Functional Grade)	7E10	500 μ g/500 μ L
M075-3M2	Mouse IgG1 (isotype control) (Functional Grade)	2E12	500 μ g/100 μ L
M076-3M2	Mouse IgG2a (isotype control) (Functional Grade)	6H3	500 μ g/100 μ L
M077-3M2	Mouse IgG2b (isotype control) (Functional Grade)	3D12	500 μ g/100 μ L
M078-3M2	Mouse IgG3 (isotype control) (Functional Grade)	6A3	500 μ g/100 μ L
M080-3M2	Rat IgG1 (isotype control) (Functional Grade)	1H5	500 μ g/100 μ L
M081-3M2	Rat IgG2a (isotype control) (Functional Grade)	2H3	500 μ g/100 μ L
M090-3M2	Rat IgG2b (isotype control) (Functional Grade)	3G8	500 μ g/100 μ L
M082-3M2	Rat IgG2c (isotype control) (Functional Grade)	6E12	500 μ g/100 μ L

Related products: Human chimeric isotype control antibodies

Code.	Product name	Clone	Package
New M194-3	Human IgG1 isotype control chimeric mAb	2E12G1-2	100 μ g/100 μ L
New M195-3	Human IgG2 isotype control chimeric mAb	2E12G2-18	100 μ g/100 μ L