10320 Camino Santa Fe, Suite G
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YOD1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11304B

Specification

YOD1 Antibody (C-term) - Product Information

Application	**IF, WB, IHC-P-Leica,E**
Primary Accession	Q5VVQ6
Other Accession	Q567B1, Q5F3A6, NP_061036.3
Reactivity	**Human**
Predicted	**Chicken, Zebrafish**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**319-347**

YOD1 Antibody (C-term) - Additional Information

Gene ID 55432

Other Names
Ubiquitin thioesterase OTU1, DUBA-8, HIV-1-induced protease 7, HIN-7, HsHIN7, OTU domain-containing protein 2, YOD1, DUBA8, HIN7, OTUD2

Target/Specificity
This YOD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 319-347 amino acids from the C-terminal region of human YOD1.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P-Leica~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
YOD1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

YOD1 Antibody (C-term) - Protein Information

Name YOD1

Synonyms DUBA8, HIN7, OTUD2

Function Hydrolase that can remove conjugated ubiquitin from proteins and participates in endoplasmic reticulum-associated degradation (ERAD) for misfolded lumenal proteins. May act by triming the ubiquitin chain on the associated substrate to facilitate their threading through the VCP/p97 pore. Ubiquitin moieties on substrates may present a steric impediment to the threading process when the substrate is transferred to the VCP pore and threaded through VCP's axial channel. Mediates deubiquitination of 'Lys-27'-, 'Lys-29'- and 'Lys-33'-linked polyubiquitin chains. Also able to hydrolyze 'Lys-11'-linked ubiquitin chains. Cleaves both polyubiquitin and di-ubiquitin. May play a role in macroautophagy, regulating for instance the clearance of damaged lysosomes. May recruit PLAA, UBXN6 and VCP to damaged lysosome membranes decorated with K48-linked ubiquitin chains and remove these chains allowing autophagosome formation (PubMed:27753622).

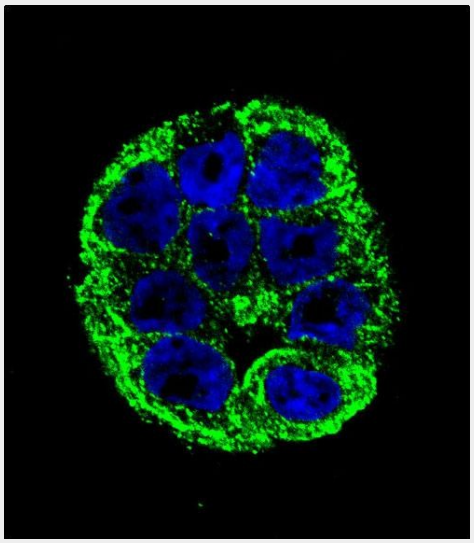
Cellular Location
Cytoplasm. Note=Recruited to damaged lysosomes decorated with K48-linked ubiquitin chains.

YOD1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

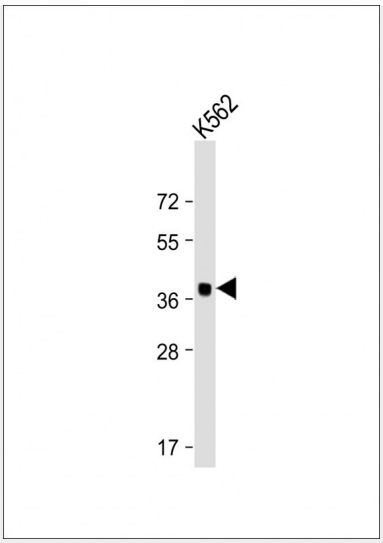
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

YOD1 Antibody (C-term) - Images

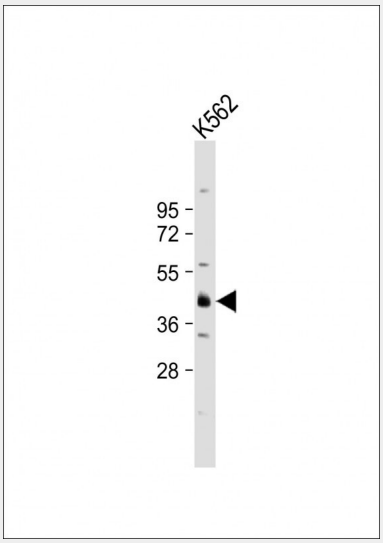


Confocal immunofluorescent analysis of YOD1 Antibody (C-term)(Cat#AP11304b) with WiDr cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

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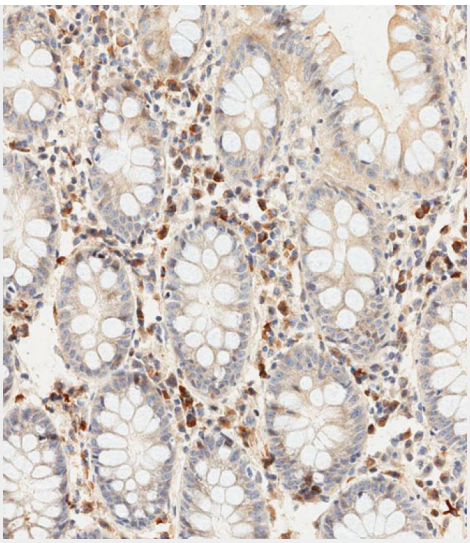


Anti-YOD1 Antibody (C-term) at 1:2000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-YOD1 Antibody (C-term) at 1:1000 dilution + K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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Immunohistochemical analysis of paraffin-embedded human colon tissue using AP11304b performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

YOD1 Antibody (C-term) - Background

Deubiquitinating enzymes (DUBs; see MIM 603478) are proteases that specifically cleave ubiquitin (MIM 191339) linkages, negating the action of ubiquitin ligases. DUBA8 belongs to a DUB subfamily characterized by an ovarian tumor (OTU) domain.[supplied by OMIM].

YOD1 Antibody (C-term) - References

Ernst, R., et al. Mol. Cell 36(1):28-38(2009)

YOD1 Antibody (C-term) - Citations

- A deubiquitinase negatively regulates retro-translocation of nonubiquitinated substrates.