

# Product Datasheet

## Caspase-1 Antibody (14F468) [DyLight 550] NB100-56565R

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB100-56565R**

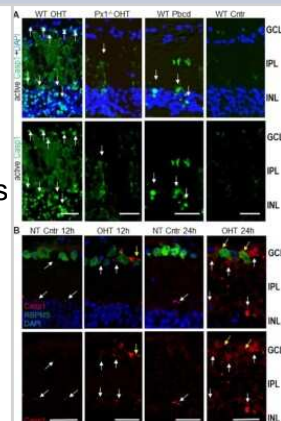
Caspase-1 Antibody (14F468) [DyLight 550]

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	14F468
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Conjugate</b>	DyLight 550
<b>Purity</b>	Protein G purified
<b>Buffer</b>	50mM Sodium Borate
<b>Product Description</b>	
<b>Description</b>	This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.
<b>Host</b>	Mouse
<b>Gene ID</b>	834
<b>Gene Symbol</b>	CASP1
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Immunogen's sequence similarity with other species: Porcine/Pig (85%), Equine/Horse (80%), Canine (70%). Rat reactivity reported in scientific literature (PMID: 22133203).
<b>Specificity/Sensitivity</b>	Caspase-1 Antibody (14F468) will recognize full-length Caspase-1 and cleaved caspase-1 forms that retain amino acids 371-390 of the Caspase-1 protein.
<b>Immunogen</b>	Caspase-1 Antibody (14F468) was developed against two synthetic peptides from the human Caspase-1 protein (amino acids 371-390 and 31-45) [UniProt P29466].
<b>Notes</b>	DyLight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot, Simple Western, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.



## Images

Activity of Caspase-1 in OHT-injured and normotensive control eyes. Caspase-1 was detected by intraocular injection FLICA660-labeled substrate (green) in vivo 24 h after injury. Bright labeling (arrows) is evident in cells in the GCL and inner nuclear layer (INL) layers of the OHT-challenged retinas, a diffuse labeling of cell processes located in the IPL. Caspase-1 activity is diminished in *Panx1*<sup>-/-</sup> (*Px1*<sup>-/-</sup> OHT) retinas and WT retinas treated with probenecid (WT/Pbcd) at 12 h postinjury. Image collected and cropped by CiteAb from the following publication (<https://www.frontiersin.org/article/10.3389/fnmol.2019.00036/full>), licensed under a CC-BY license.



## Publications

Pronin A, Pham D, An W et al. Inflammasome Activation Induces Pyroptosis in the Retina Exposed to Ocular Hypertension Injury *Front Mol Neurosci* 2019-03-13 [PMID: 30930743]



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### **Products Related to NB100-56565R**

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NBP1-43319R	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [DyLight 550]
NB100-56565B	Caspase-1 Antibody (14F468) [Biotin]
NB100-56564PEP	Caspase-1 Antibody Blocking Peptide
210-TA-005	TNF-alpha [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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