Revision 1

NBR1 (D2E6) Rabbit mAb (PE Conjugate)

#54516 Store at +4C

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H	Endogenous	Rabbit IgG	#Q14596	4077

Product Usage Information

Application	Dilution
Flow Cytometry (Fixed/Permeabilized)	1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

NBR1 (D2E6) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total NBR1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys601 of human NBR1 protein.

Description

This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated NBR1 (D2E6) Rabbit mAb #9891.

Background

Next to BRCA1 gene 1 (NBR1) protein is known for its encoding gene proximity to the BRCA1 tumor suppressor gene (1,2). N-terminal Phox and Bem1p (PB1) domains of NBR1 mediate its interaction with muscle specific titin kinase (3,4) and scaffolding protein p62 (4). NBR1 plays a role in selective autophagy by facilitating the autophagosomal degradation of ubiquitinated proteins independently and also in concert with p62 (5-11).

Background References

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3. Lange, S. et al. (2005) *Science* 308, 1599-603.
4. Müller, S. et al. (2006) *FEBS Lett* 580, 341-4.
5. Kirkin, V. et al. (2009) *Mol Cell* 33, 505-16.
6. Lamark, T. et al. (2009) *Cell Cycle* 8, 1986-90.
7. Kenific, C.M. and Debnath, J. (2016) *Autophagy* 12, 1958-1959.
8. Hafrén, A. and Hofius, D. (2017) *Autophagy* 13, 2000-2001.
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10. Sánchez-Martín, P. et al. (2020) *EMBO Rep* 21, e48902.
11. Turco, E. et al. (2021) *Nat Commun* 12, 5212.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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Limited Uses

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