Phospho-NDRG1 (Thr346) (F5) rabbit mAb

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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry,WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human, Mouse

Recommended

Usage: $1\mu g/mL$? $0.001\mu g/mL$. It is recommended that the reagent be titrated for optimal performance for

each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Thr346 of human phospho

NDRG1

Description: N-Myc down-regulated gene 1 (NDRG1) has been reported to be a direct transcriptional target of p53.

NDRG1 appears to play a necessary, but not sufficient, role in apoptosis, though its exact mechanism of action remains unknown. NDRG1 expression is elevated in non-small cell lung cancer cells, promoting cancer growth and reducing cytotoxicity to certain anti-cancer drugs. NDRG1 is also elevated in solid tumors and is recognized as a negative prognostic indicator in breast cancer. Elevated NDRG1 expression is correlated with disease recurrence and metastasis in breast cancer. NDRG1 is phosphorylated by Sgk1, which itself is activated by mTORC2. Phosphorylation of NDRG1

at Thr346 promotes cellular differentiation in adipocytes.

References: Stein S, Thomas EK, Herzog B, Westfall MD, Rocheleau JV, Jackson II RS, Wang M, and Liang P.

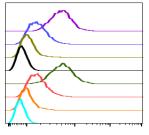
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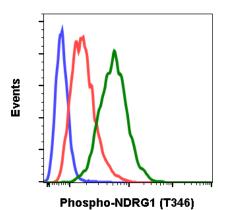
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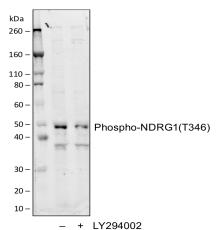


Г	IgG	Treatment	Peptide Block	Median : BL1-A
	F5	IFN	Non-phos.	4857
	F5	Ctrl	Non-Phos.	1692
	F5	IFN	Phos.	1053
	F5	Ctrl	Phos.	713
	F5	IFN	-	5133
	F5	Ctrl	-	1692
	Isotype Ctrl	IFNa		979
	2' only	Ctrl	-	623

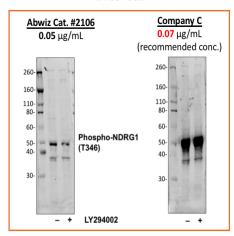
Peptide blocking flow cytometric analysis of THP1 cells secondary antibody only negative control (light blue) or untreated (orange) using isotype control antibody #2141 or untreated (red) or with IFN? + IL-4 + pervanadate (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-NDRG1 (Thr346) antibody NDRG1T346-F5 at 0.05 $\mu g/mL$. Cat. #2106.



Flow cytometric analysis of THP1 cells secondary antibody only negative control (blue) or untreated (red) or treated with IFN? + IL-4 + pervanadate (green) using Phospho-NDRG1 (Thr346) antibody NDRG1T346-F5 at 0.05 µg/mL. Cat. #2106.



Western blot analysis of C2C12 cell extract untreated or treated with LY294002 using 0.05 ug/mL Phospho-NDRG1 (Thr346) antibody NDRG1T346-F5 Cat. #2106.



Western blot analysis of C2C12 cell extract untreated or treated with LY294002 using 0.05 μ g/mL Phospho-NDRG1 (Thr346) antibody NDRG1T346-F5 Cat. #2106 or Company C antibody at 0.07 μ g/mL (manufacturer?s recommended concentration) developed using the same exposure.

