Phospho-NDRG1 (Thr346) (F5) rabbit mAb PE conjugate

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Catalog: #2107 **Store at:** 2-8ºC

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

Format: PE

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

Formulation: 1X PBS, 0.09% NaN3, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

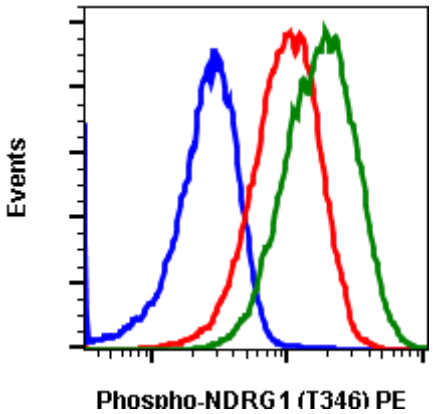
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

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. (2004) Journal of Biological Chemistry. 279:48930-48940.
Du A, Jiang Y, and Fan C. (2018) International Journal of Medical Sciences. 15:1502-1507.
Cai K, El-Merahbi R, Loeffler M, Mayer AE, and Sumara G. (2017) Scientific Reports 7:7191.
Sevinsky CJ, Khan F, Kokabee L, Darehshouri A, Maddipati KR, and Conklin DS. (2018) Breast Cancer Research. 20:55.



Flow cytometry of THP1 cells unstained and untreated as negative control (blue) or stained and untreated (red) or stained and treated with IFNa plus IL-4 and pervanadate (green) using phospho-NDRG1 (Thr346) (F5) rabbit mAb, NDRG1T346-F5 PE conjugate, Cat# 2107.