Phospho-Ship2 (Tyr1135) (1D2) rabbit mAb FITC conjugate

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Catalog: #2228 **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: FITC

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. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr1135 of human phospho Ship2

Description: Ship2 (SH2-containing inositol phosphatase 2, phospho Ship2) is a homolog of Ship1. Ship2 is highly expressed in the heart, in skeletal muscle, and in the placenta (1). SHIP2 negatively regulates insulin signaling (2), and Ship2 polymorphisms have been linked to hyperglycemia (3). Phospho Ship2 has been identified as a potential therapeutic target for the treatment of obesity and type 2 diabetes (4,5). The Ship2 residue Tyr1135 is phosphorylated in human cancer cells (6-8).

References:

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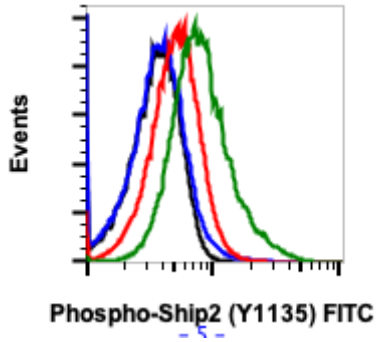
4. Wada, T. et al. (2001) Mol Cell Biol 21, 1633-46.
5. Ishida, S. et al. (2006) Pancreas 33, 63-7.
6. Dyson, J.M. et al. (2005) Int J Biochem Cell Biol 37, 2260-5.
7. Liang, X. et al. (2006) Proteomics 6, 4554-64.
8. Guo, A. et al. (2008) Proc Natl Acad Sci U S A 105, 692-7.



Flow cytometric analysis of U937 cells untreated (red) or treated with INFa, IL-4 and pervanate (green) using Phospho-Ship2 (Tyr1135) (1D2) Rabbit mAb (FITC Conjugate) Ship2Y1135-1D2 #2228, or concentration-matched Rabbit (G9) mAb IgG Isotype Control (FITC Conjugate) #2143 for cells untreated (black) or treated with IFNa, IL-4 and pervanadate (blue).