Phospho-Ship2 (Tyr1135) (1D2) rabbit mAb SureLight®488 conjugate

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

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

Format: SureLight 488

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.

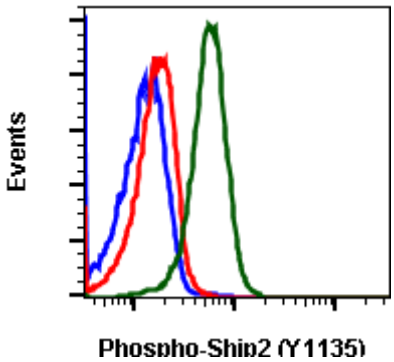
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr1135 of human phospho Ship2

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.
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7. Liang, X. et al. (2006) Proteomics 6, 4554-64.
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Flow cytometric analysis of U937 cells unstained untreated U937 cells as negative control (blue) or stained and untreated (red) or treated with IFNα IL-4 and pervanadate (green) using phospho-Ship2 (Tyr1135) S antibody Ship2Y1135-1D2 ureLight® 488 conjugated. Cat. #2230.

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