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

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Catalog: #2226 **Store at:** -20ºC

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

Applications	Detection	Clonality	Isotype
Flow Cytometry	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

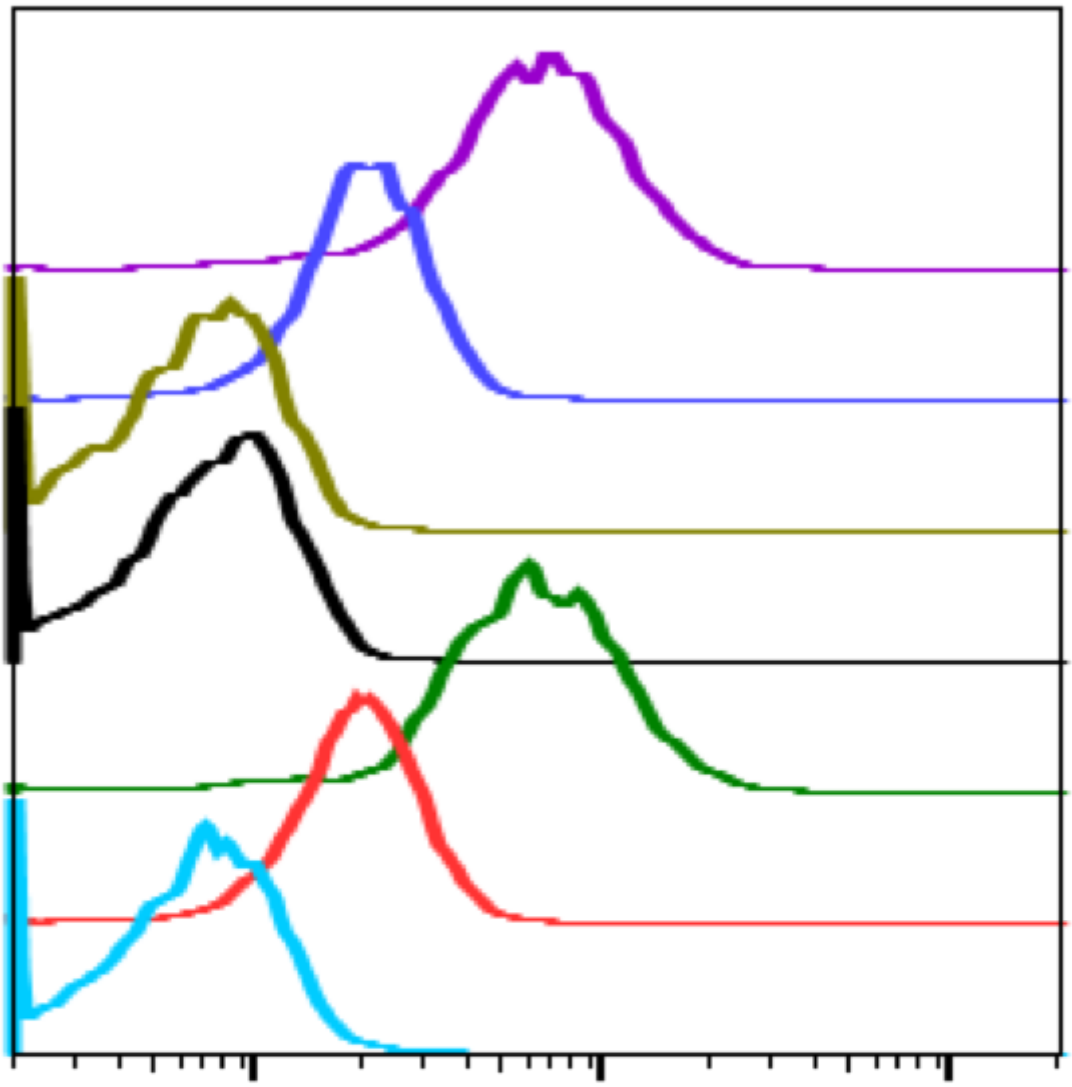
Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding 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).

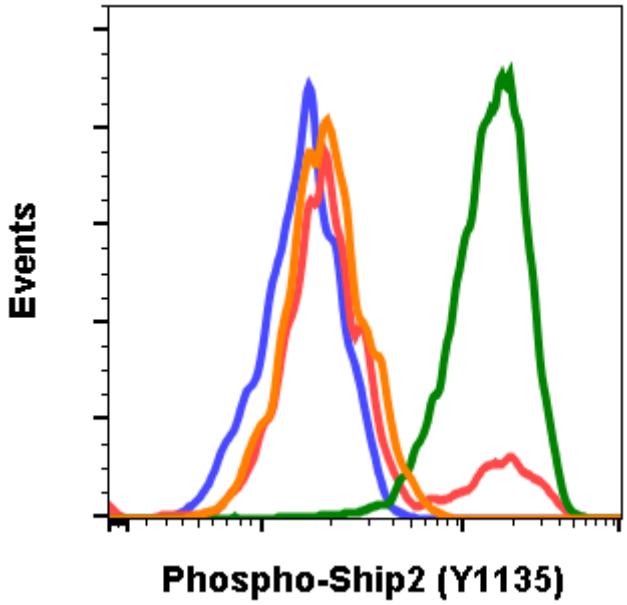
References:

1. Goss, V.L. et al. (2006) Blood 107, 4888-97.
2. Rikova, K. et al. (2007) Cell 131, 1190-203.
3. Pesesse, X. et al. (1997) Biochem Biophys Res Commun 239, 697-700.
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.

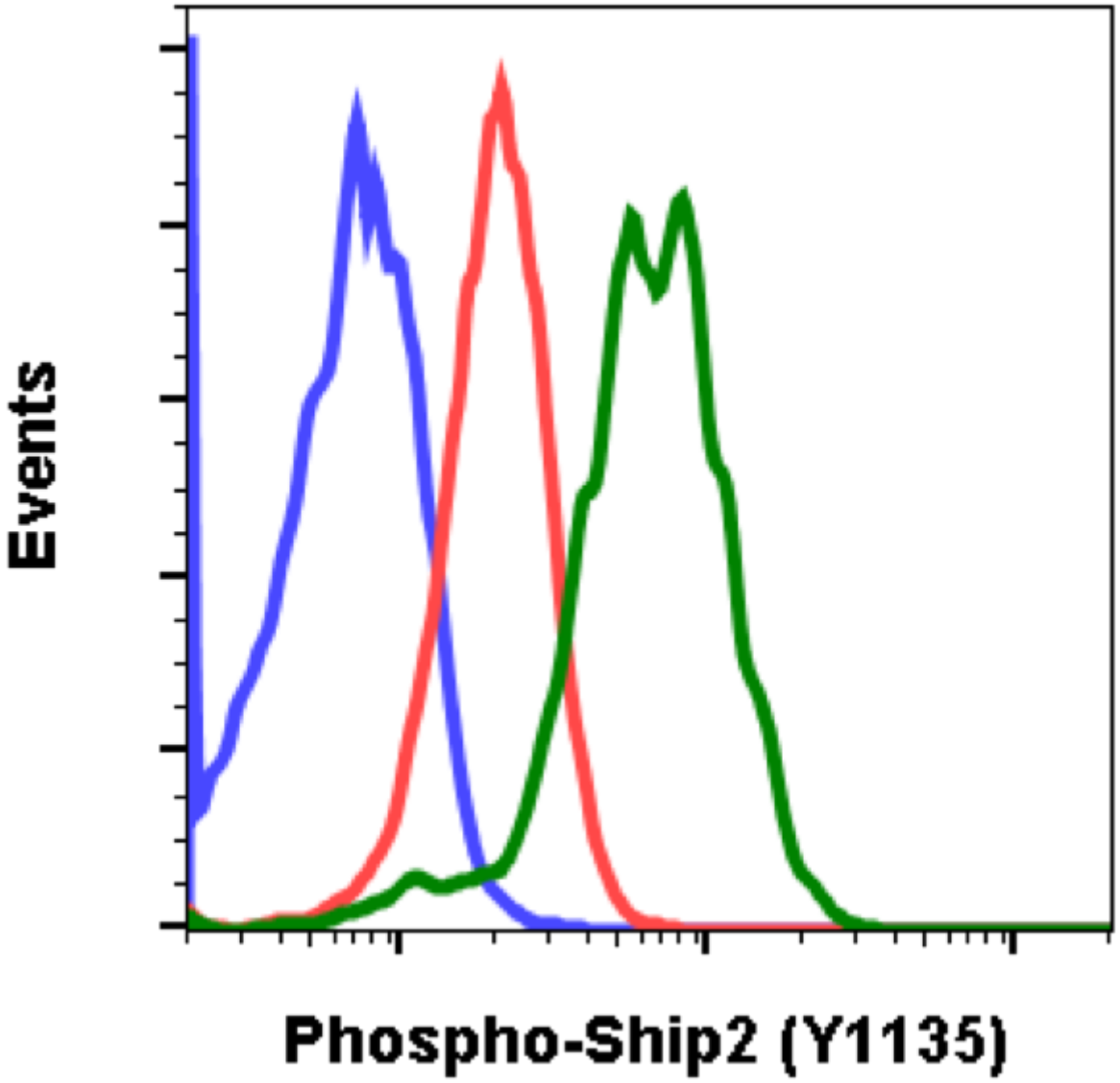


	SampleID	Count	Median : BL1-A
☐	IFN 1D2 N	3249	6400
☐	Ctrl 1D2 N	10942	2043
☐	IFN 1D2 P	3472	657
☐	Ctrl 1D2 P	9722	723
☐	IFN 1D2	3918	6094
☐	Ctrl 1D2	13754	1956
☐	Ctrl 2' only	10213	648

Peptide blocking flow cytometric analysis of U937 cells secondary antibody only negative control (light blue) or untreated (red) or treated with IFNα IL-4 and 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-Ship2 (Tyr1135) antibody Ship2Y1135-1D2 at 0.5µg/mL. Cat. #2226.



Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or 1 µg/mL of isotype control Cat. #2141 (orange) or untreated (red) or treated with staurosporine (green) using Phospho-Ship2 (Tyr1135) antibody Ship2Y1135-1D2 at 1 µg/mL. Cat. #2226.



Flow cytometric analysis of U937 cells secondary antibody only negative control (blue) or untreated (red) or treated with IFNα IL-4 and pervanadate (green) using Phospho-Ship2 (Tyr1135) antibody Ship2Y1135-1D2 at 0.5µg/mL. Cat. #2226.