

Product Data Sheet: Purified anti-phospho-Ask1 (Ser83) rabbit mAb

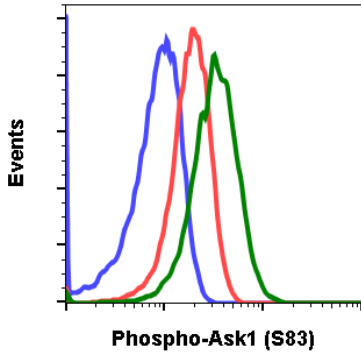
Catalog Number:	2096
Clone:	Ask1S83-G4
Isotype:	Rabbit IgG1κ
Immunogen:	A synthetic phospho-peptide corresponding to residues surrounding Ser83 of human phospho Ask1
Reactivity:	Rat, Mouse, Human
Cross Reactivity:	Predicted to work with mouse, rat and other homologues.
Preparation:	Protein A+G
Formulation:	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% BSA
Applications:	WB, Flow Cytometry
Recommended Usage:	1.0 - 0.1 µg/ml. Optimum concentration should be determined by the user.
Product Configuration:	200 ul (0.5mg/ml, more than 200 western blots)
Detection:	Anti-Rabbit IgG

Description

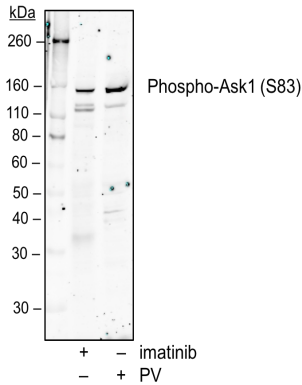
Apoptosis signal-regulating kinase 1 (Ask1, phospho Ask1) plays essential roles in stress-induced apoptosis. Activated in response to stress-related signals, Ask1 activates MKK4 and MKK3, which then activate JNK and p38. Ask1/phospho Ask1 overexpression induces apoptosis in several cell types through signals involving the mitochondrial cell death pathway. Embryonic fibroblasts or primary neurons derived from homozygous Ask1 knockout mice are resistant to stress-induced JNK and p38 activation and cell death. Akt phosphorylates Ask1 at Ser83, which attenuates phospho Ask1 activity and promotes cell survival.

References

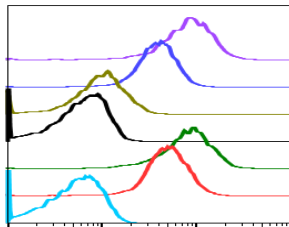
1. Ichijo H, et al. (1997) Science. 275: 90-94.
2. Wang XS, et al. (1996) J. Biol. Chem. 271: 31607-11.
3. Matsuzawa A, and Ichijo H, (2001) J. Biochem. 130: 1-8.
4. Tobiume K, et al. (2001) EMBO Rep. 2: 222-8.
5. Nishitoh H, et al. (2002) Genes Dev. 16: 1345-55.
6. Kim AH, et al. (2001) Mol. Cell. Biol. 21: 893-901.

Purified anti-phospho-Ask1 (Ser83) rabbit mAb Images


Flow cytometric analysis of C6 cells, secondary antibody only negative control (blue), or treated with imatinib (red) or with pervanadate (green) using Phospho-Ask1 (Ser83) antibody Ask1S83-G4 at 1ng/mL. Cat. #2096.

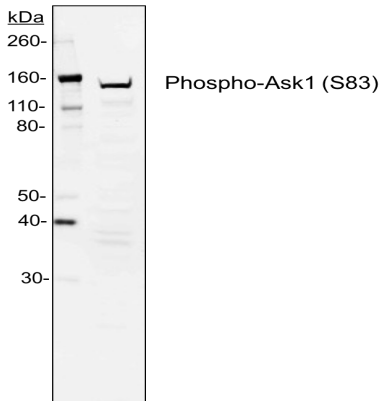


Western blot analysis of C6 cell extract, treated with imatinib or treated with PV using Phospho-Ask1 (Ser83) antibody at 0.01 µg/mL. Ask1S83-G4. Cat. #2096.

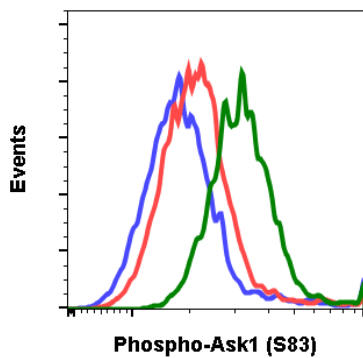


Peptide blocking flow cytometric analysis of C6 cells, secondary antibody only negative control (light blue) or imatinib-treated (red) or pervanadate-treated (green) or imatinib and blocked with phospho-peptide (black) or pervanadate and blocked with phospho peptide (gold) or imatinib and blocked with non-phospho peptide (dark blue) or pervanadate and blocked with non-phospho peptide (purple) using Phospho-Ask1 (Ser83) antibody Ask1S83-G4 at 1ng/mL. Cat. #2096.

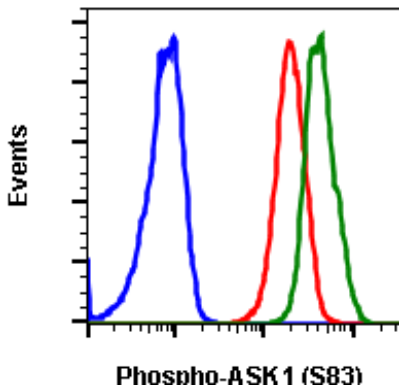
SampleID	Count	Median : BL1.A
Pv G4 N	2751	8214
Imat G4 N	13154	3813
Pv G4 P	2992	961
Imat G4 P	10492	588
Pv G4	3941	8118
Imat G4	13763	4861
Imat 2' only	15040	467



Western blot analysis of L929 cell extract, treated with 20% FBS using Phospho-Ask1 (Ser83) antibody Ask1S83-G4 at 0.01µg/mL. Cat. #2096.



Flow cytometric analysis of K562 cells, secondary antibody only negative control (blue), or treated with imatinib (red) or with IFN α + IL-4 + pervanadate (green) using Phospho-Ask1 (Ser83) antibody Ask1S83-G4 at 5ng/mL. Cat. #2096.



Flow cytometric analysis of HT1080 cells, secondary antibody only negative control (blue), or treated with imatinib (red) or with pervanadate (green) using Phospho-Ask1 (Ser83) antibody Ask1S83-G4 at 0.01 ug/mL. Cat. #2096.