PRODUCT INFORMATION

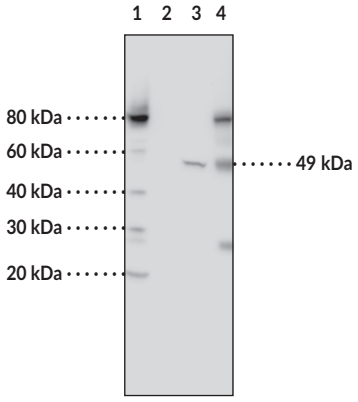
IP6K2 Monoclonal Antibody (Clone 4F10)

Item No. 10239

Overview and Properties

Contents:	This vial contains 200 µg lyophilized protein A-purified monoclonal antibody.
Synonyms:	IHPK2, Inositol Hexakisphosphate Kinase 2
Immunogen:	Human IP6K2 protein
Species Reactivity:	(+) Human; other species not tested
Uniprot No.:	Q9UHH9
Form:	Solid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	TBS, pH 7.4 when resuspended in 500 µl of double-distilled water
Clone:	4F10
Host:	Mouse
Isotype:	IgG2b
Applications:	Immunocytochemistry (ICC) and Western blot (WB); the recommended starting dilution for ICC is 1:50-1:100 and 1:200 for WB. Other applications were not attempted and therefore optimal working dilutions should be determined empirically.

Image



Lane 1: MW Standard
Lane 2: IP6K2 control lysate (10 µg)
Lane 3: IP6K2 over expressed lysate (10 µg)
Lane 4: Mouse small intestine supernatant (30 µg)

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Description

Inositol hexakisphosphate kinase 2 (IP6K2) is a cytoplasmic kinase that catalyzes the conversion of IP_6 to diphosphoinositol pentakisphosphate in the presence of ATP.[1] IP6K2 functions as a proapoptotic protein kinase.[2] IP6K2 binds to tumor necrosis factor receptor-associated factor 2 and inhibits NF-κB signaling.[3] Heat Shock Protein 90 regulates apoptosis through a normal physiological interaction with IP6K2 by inhibiting its catalytic activity.[4] Thus, IP6K2 is a potential target for cancer therapeutics development.[4]

References

1. Saiardi, A., Erdjument-Bromage, H., Snowman, A.M., *et al*. Synthesis of diphosphoinositol pentakisphosphate by a newly identified family of higher inositol polyphosphate kinases. *Curr. Biol.* **9**, 1323-1326 (1999).
2. Morrison, B.H., Bauer, J.A., Kalvakolanu, D.V., *et al*. Inositol hexakisphosphate kinase 2 mediates growth suppressive and apoptotic effects of interferon-b in ovarian carcinoma cells. *J. Biol. Chem.* **276(27)**, 24965-24970 (2001).
3. Morrison, B.H., Bauer, J.A., Lupica, J.A., *et al*. Effect of inositol hexakisphosphate kinase 2 on transforming growth factor b-activated kinase 1 and NF-k B activation. *J. Biol. Chem.* **282(21)**, 15349-15356 (2007).
4. Chakraborty, A., Koldobskiy, M.A., Sixt, K.M., *et al*. HSP90 regulates cell survival *via* inositol hexakisphosphate kinase-2. *Proc. Natl. Acad. Sci. USA* **105(4)**, 1134-1139 (2008).

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