Store at -20C

Forkhead Signaling Antibody Sampler Kit



Orders:

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1 Kit (8 x 20 microliters)

For Research Use Only. Not for Use in Diagnostic Procedures.

Product #	Ouantity	Mol. Wt	Isotype/Source
			Rabbit
9461	20 μl	82 kDa	Rabbit
2599	20 μΙ	65, 78 to 82, 95 kDa	Rabbit
2880	20 μΙ	78 to 82 kDa	Rabbit IgG
13129	20 μΙ	97 kDa	Rabbit IgG
9465	20 μΙ	97 kDa	Rabbit
9472	20 μΙ	65 kDa	Rabbit
12829	20 μΙ	82 to 97 kDa	Rabbit IgG
7074	100 µl		Goat
	9464 9461 2599 2880 13129 9465 9472 12829	9464 20 µl 9461 20 µl 2599 20 µl 2880 20 µl 13129 20 µl 9465 20 µl 9472 20 µl 12829 20 µl	9461 20 μl 82 kDa 2599 20 μl 65, 78 to 82, 95 kDa 2880 20 μl 78 to 82 kDa 13129 20 μl 97 kDa 9465 20 μl 97 kDa 9472 20 μl 65 kDa 12829 20 μl 82 to 97 kDa

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

This sampler kit provides an economical means to investigate Forkhead signaling. The kit contains primary and secondary antibodies to perform two Western blots with each antibody.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.

Background

The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias (1-3). Within the family, three members (FoxO1, FoxO4, and FoxO3a) have sequence similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway involving IGFR1, PI3K, and Akt (4-6). Active forkhead members act as tumor suppressors by promoting cell cycle arrest and apoptosis. Increased expression of any FoxO member results in the activation of the cell cycle inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF- β -mediated upregulation of p21 Cip1, a process negatively regulated through PI3K (7). Increased proliferation results when forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser256, and Ser319, which results in nuclear export and inhibition of transcription factor activity (8). Forkhead transcription factors can also be inhibited by the deacetylase sirtuin (SirT1) (9).

Background References

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