

POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. THU-A-DFOXO

Anti dFoxO

BACKGROUND

Forkhead transcription factor FoxO controls various cellular processes involved in cell cycle, cell death, metabolism and oxidative stress. Recent studies have also suggested FoxO is a key molecule for lifespan regulation of various organisms. *Drosophila* has a single FoxO gene (*dFoxO*), inactivation of which is dispensable for survival. However, dFoxO appears to regulate resistance to oxidative stress and aging in *Drosophila*. The activity of dFoxO is regulated by phosphorylation, ubiquitination and acetylation, which may cause multiple bands of dFoxO in western blotting using this antibody. This antibody detects endogenous levels of total dFoxO protein.

Product type	Polyclonal antibodies
Host	Rabbit
Source	Antiserum
Form	Liquid
Volume	100 µl (0.02% Sodium Azide)
Specificity	<i>Drosophila</i> FoxO (dFoxO)
Antigen	GST-dFoxO (1 – 214 aa)

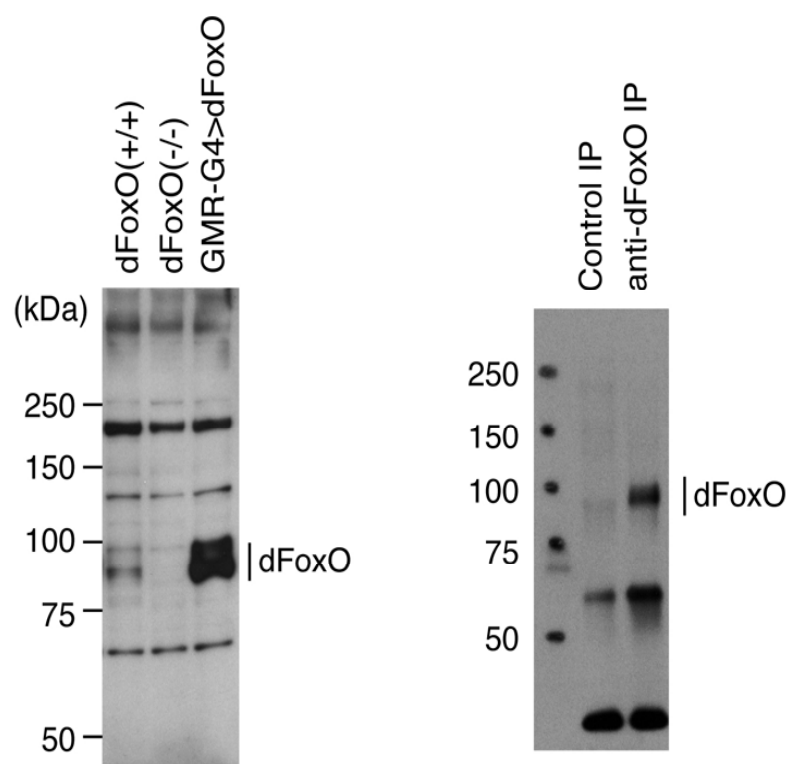
Application notes	Recommended use WB, IP
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Recommended dilutions
Western blotting, 1/1,000 to 1/3,000
Optimal dilutions/concentrations should be determined by the end user.

Cross reactivity	Not test for other species.
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Storage	Store at 4°C for a short time (below -70°C for prolonged storage) Aliquot to avoid cycles of freeze/thaw
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References	1) Kanao T, et al. Activation of FoxO by LRRK2 induces expression of proapoptotic proteins and alters survival of postmitotic dopaminergic neuron in <i>Drosophila</i> . <i>Hum Mol Genet.</i> 19, 3747-3758, 2010
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Expression of dFoxO in the fly brain lysates was detected with anti-dFoxO (1 : 3000-dilution) combined with the ECL Plus reagent.

Endogenous dFoxO from S2 cells was immunoprecipitated with anti-dFoxO.

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