Anti-daf-2(Abnormal dauer formation protein 2) Polyclonal Antibody

Cat. #: 60B158

Description:
The daf-2 is an insulin receptor-like gene that regulates longevity and diapause in Caenorhabditis elegans. A C. elegans neurosecretory signaling system regulates whether animals enter the reproductive life cycle or arrest development at the long-lived dauer diapause stage. daf-2, a key gene in the genetic pathway that mediates this endocrine signaling, encodes an insulin receptor family member. Decreases in DAF-2 signaling induce metabolic and developmental changes, as in mammalian metabolic control by the insulin receptor. Decreased DAF-2 signaling also causes an increase in life-span. Life-span regulation by insulin-like metabolic control is analogous to mammalian longevity enhancement induced by caloric restriction, suggesting a general link between metabolism, diapause, and longevity.

Immunogen/Specificity:
Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of Caenorhabditis elegans daf-2(Abnormal dauer formation protein 2)

References
Kimura,K.D., et al, Science 277 (5328), 942-946 (1997)
Tissenbaum HA, et al, Genetics 148(2), 703-17 (1998)
Ogg S, et al, Nature 389(6654), 994-9 (1997)
Yu H, et al, J Mol Biol. 314(5), 1017-28 (2001)

Species: Caenorhabditis elegans
Storage and Stability: at -20oC

Storage buffer:
This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:
Purified by antigen-specific affinity chromatography.

Applications :
ELISA
Western Blotting (1µg/ml for 2hrs)

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