

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.

Species: *Caenorhabditis elegans*
Storage and Stability: at -20°C

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to residues 1676-1689 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)