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cad antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12851

Specification

cad antibody - middle region - Product Information

Application	**WB**
Primary Accession	P09085
Other Accession	NM_134301, NP_599128
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**46kDa KDa**

cad antibody - middle region - Additional Information

Gene ID 35341

Alias Symbol	**Dmel_CG1759, 38E.19, CG1759, Cad, S67, cd, anon-WO2004063362.83, CAD, Dmel\CG1759**

Other Names
Homeotic protein caudal, cad

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-cad antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
cad antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

cad antibody - middle region - Protein Information

Name cad

Function
Caudal (cad) is one of a number of transcription factors controlling segmentation of the embryo. Further transcriptional regulation via a 5' flanking region containing DNA replication-related elements (DRE) and by dref also regulated by trh and tgo via the CNS midline element. Alongside Bicoid (bcd), caudal forms concentration gradients down the anterior-posterior (A-P) axis providing positional information and subsequent induction of the gap genes. Plays a role in gastrulation/germ band extension, hindgut morphogenesis, positive regulation of cell proliferation, genital disk development and pattern formation. Acts as a key regulator of the Hox gene network

and activates transcription via the downstream core promoter element (DPE) relative to the TATA box. Plays a role in the establishment of the hindgut and in the invagination of the hindgut primordium during gastrulation. These effects on the gut are achieved by acting combinatorially at the posterior of the embryo to activate transcription of different targets including fog, fkh and wg. Caudal is involved in regulation of proliferation through transactivation of the E2F gene. Postembryonically its function is mostly restricted to the intestine where it regulates antimicrobial peptide (AMP) levels preserving the normal gut flora.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:2433048}

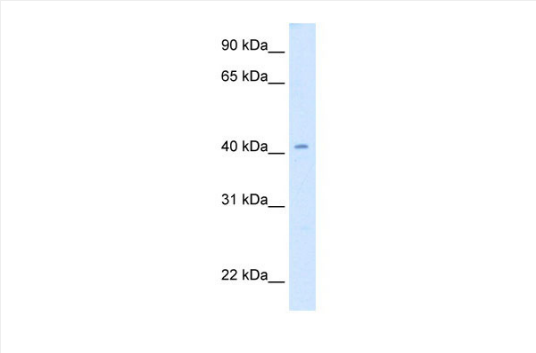
Tissue Location
Maternally localized in an anteroposterior gradient in the syncytial blastoderm. Also expressed in the pole cells Zygotically localized in the primordia of the terminal abdominal segment, the hindgut and in the posterior midgut rudiment. Expressed in the gut, the gonads and parts of the genital disks of third instar larvae (at protein level).

cad antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

cad antibody - middle region - Images



WB Suggested Anti-cad Antibody Titration: 0.2-1 µg/ml
Positive Control: Drosophila