Mouse Anti Caenorhabditis elegans vinculin Hybridoma [NI35]

Anti Caenorhabditis elegans vinculin Hybridoma
Lot. No. (See product label)

CELL LINE INFORMATION

<table>
<thead>
<tr>
<th>Cat.No.</th>
<th>CSC-H2742</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name</td>
<td>deb-1</td>
</tr>
<tr>
<td>Clone</td>
<td>NI35</td>
</tr>
</tbody>
</table>

Cell Line Description
The antibody is against Caenorhabditis elegans vinculin. (Name: Caenorhabditis elegans; Origin: cuticle from N2 worms; see Francis and Waterston 1991; Developmental Stage: mixed post hatching; Chemical properties: vinculin encoded by deb-1 gene; Molecular weight: 108 kDa; Functional effects: component of dense body, which anchors thin filaments)

Background
Vinculin is a eukaryotic protein that seems to be involved in the attachment of the actin-based microfilaments to the plasma membrane. Vinculin is located at the cytoplasmic side of focal contacts or adhesion plaques. In addition to actin, vinculin interacts with other structural proteins such as talin and alpha-actinins.

Vinculin is a large protein of 116 kDa (about a 1000 residues). Structurally the protein consists of an acidic N-terminal domain of about 90 kDa separated from a basic C-terminal domain of about 25 kDa by a proline-rich region of about 50 residues. The central part of the N-terminal domain consists of a variable number (3 in vertebrates, 2 in Caenorhabditis elegans) of repeats of a 110 amino acids domain.

Immunogen
Caenorhabditis elegans vinculin

Immunological Donor
female balb/c Mouse spleen

Myeloma
Mouse SP2/0

Fusion Species
Mouse X Mouse Hybridoma

Mycoplasma
Mycoplasma Status: Negative (MycoAlert Kit)

ANTIBODY INFORMATION

Reactivity
C. elegans

Isotype
IgG1, kappa light chain

Target
deb-1

Application
Cell binding: base of dense bodies in body-wall muscle cells; Immunohistology; Immunoblotting; Immunohistochemistry

SAFETY AND PACKAGING

Storage
liquid nitrogen

Safety Considerations
The following safety precautions should be observed.
1. Use pipette aids to prevent ingestion and keep aerosols down to a minimum.
2. No eating, drinking or smoking while handling the hybridoma.
3. Wash hands after handling the hybridoma and before leaving the lab.
4. Decontaminate work surface with disinfectant or 70% ethanol before and after working with hybridoma.
5. All waste should be considered hazardous.
6. Dispose of all liquid waste after each experiment and treat with bleach.

Ship
Dry Ice
ANTIGEN GENE INFORMATION

Gene Name  deb-1 Protein DEB-1 [Caenorhabditis elegans]
Official Symbol  deb-1
Synonyms  deb-1; Protein DEB-1; CELE_ZC477.9; NP_501104.2; NP_501105.2; NP_741437.1
Gene ID  177482
Chromosome Location  chromosome: IV
Pathway  Hemostasis, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem; Response to elevated platelet cytosolic Ca2+, organism-specific biosystem
Function  protein binding; structural constituent of cytoskeleton; structural molecule activity

REFERENCES