

Datasheet for ABIN3031919  
**anti-MYLK3 antibody (AA 40-69)**

## 6 Images

[Go to Product page](#)

## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 0.4 mL   |
| Target:              | MYLK3  |
| Binding Specificity: | AA 40-69   |
| Reactivity:          | Human, Mouse   |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This MYLK3 antibody is un-conjugated                     |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), ELISA |

## Product Details

|               |  |
|---------------|--|
| Immunogen:    | A portion of amino acids 40-69 from the human protein was used as the immunogen for this MYLK3 antibody. |
| Isotype:      | Ig Fraction  |
| Purification: | Purified   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | MYLK3   |
| Alternative Name: | MYLK3 ( <a href="#">MYLK3 Products</a> )  |
| Background:       | MLCK/MYLK3, a member of the Ser/Thr protein kinase family, is a calcium/calmodulin-dependent enzyme responsible for smooth muscle contraction via phosphorylation of a specific serine in the N-terminus of myosin light chains (MLC), an event that facilitates myosin |

## Target Details

interaction with actin filaments. It is a central determinant in the development of vascular permeability and tissue edema formation. In the nervous system it has been shown to control the growth initiation of astrocytic processes in culture and to participate in transmitter release at synapses formed between cultured sympathetic ganglion cells. MLCK acts as a critical participant in signaling sequences that result in fibroblast apoptosis. Smooth muscle and non-muscle isozymes are expressed in a wide variety of adult and fetal tissues and in cultured endothelium with qualitative expression appearing to be neither tissue- nor development-specific. Non-muscle isoform 2 is the dominant splice variant expressed in various tissues. The Telokin isoform, which binds calmodulin, has been found in a wide variety of adult and fetal tissues. MLCK is probably down-regulated by phosphorylation. The protein contains 1 fibronectin type III domain and 9 immunoglobulin-like C2-type domains.

UniProt: [Q32MK0](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

## Application Details

Application Notes: Titration of the MYLK3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100

Restrictions: For Research Use only

## Handling

Format: Liquid

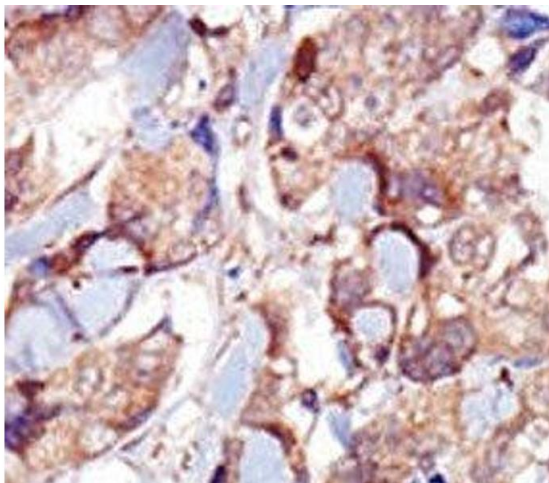
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

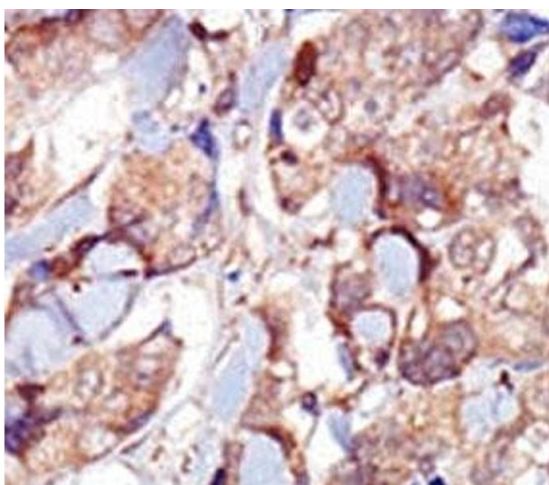
Storage: -20 °C

Storage Comment: Aliquot the MYLK3 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



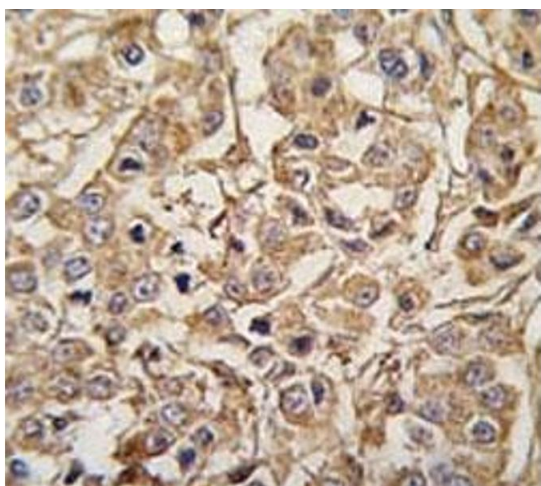
#### Immunohistochemistry

**Image 1.** IHC analysis of FFPE human breast carcinoma tissue stained with the MYLK3 antibody



#### Immunohistochemistry

**Image 2.** IHC analysis of FFPE human breast carcinoma tissue stained with the MYLK3 antibody



#### Immunohistochemistry

**Image 3.** IHC analysis of FFPE human breast carcinoma tissue stained with MYLK3 antibody

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3031919.