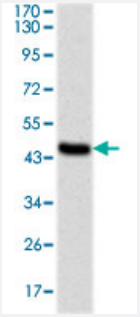
# PPP2R4 monoclonal antibody, clone 4D9

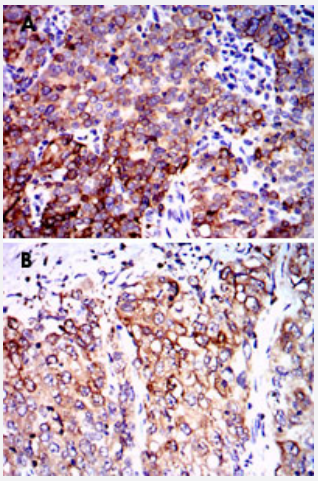
Catalog # MAB10300 Size 100 ug

## Applications



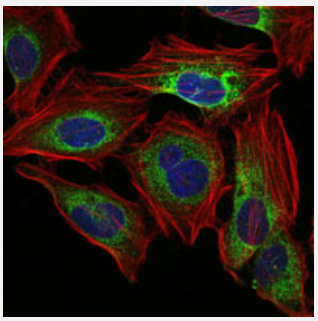

### Western Blot (Recombinant protein)

Western blot analysis using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) against recombinant human PPP2R4 protein.



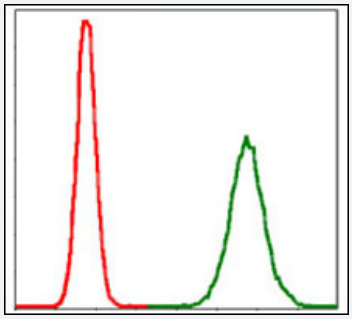

### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue (A) and lung cancer tissue (B) using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) with DAB staining.



### Immunofluorescence

Immunofluorescence analysis of HeLa cells using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



## Flow Cytometry

Flow cytometric analysis of MCF-7 cells using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) (green) and negative control (red).

## Specification

| | |
|---|---|
| **Product Description** | Mouse monoclonal antibody raised against recombinant PPP2R4. |
| **Immunogen** | Recombinant protein corresponding to human PPP2R4. |
| **Host** | Mouse |
| **Theoretical MW (kDa)** | 41 |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Isotype** | IgG1 |
| **Recommend Usage** | ELISA (1:10000)<br>Western Blot (1:500-1:2000)<br>Immunohistochemistry (1:200-1:1000)<br>Immunofluorescence (1:200-1:1000)<br>Flow cytometry (1:200-1:400)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.05% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Recombinant protein)

  Western blot analysis using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) against recombinant human PPP2R4 protein.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue (A) and lung cancer tissue (B) using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) with DAB staining.

- Immunofluorescence

  Immunofluorescence analysis of HeLa cells using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

  Flow cytometric analysis of MCF-7 cells using PPP2R4 monoclonal antobody, clone 4D9 (Cat # MAB10300) (green) and negative control (red).

## Gene Info — PPP2R4

| | |
|---|---|
| **Entrez GeneID** | 5524 |
| **Gene Name** | PPP2R4 |
| **Gene Alias** | MGC2184, PP2A, PR53, PTPA |
| **Gene Description** | protein phosphatase 2A activator, regulatory subunit 4 |
| **Omim ID** | 600756 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Protein phosphatase 2A is one of the four major Ser/Thr phosphatases and is implicated in the ne gative control of cell growth and division. Protein phosphatase 2A holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B"/PR72 families. These different regulatory subunits confer distinct enzymatic spec ificities and intracellular localizations to the holozenzyme. The product of this gene belongs to the B' family. This gene encodes a specific phosphotyrosyl phosphatase activator of the dimeric form of protein phosphatase 2A. Alternative splicing results in multiple transcript variants encoding diff erent isoforms. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000022333\|PP2A phosphatase activator\|PP2A, subunit B'\|phosphotyrosyl phospha tase activator\|protein phosphatase 2A, regulatory subunit B'\|protein phosphatase 2A, regulatory s ubunit B' (PR 53) |

## Disease

- Kidney Failure