

# Anti-Profilin 2 Antibody

Catalog # ABO11473

## Product Information

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|--------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                                |
| <b>Primary Accession</b> | <a href="#">P35080</a>                                                                                   |
| <b>Host</b>              | Rabbit                                                                                                   |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                        |
| <b>Clonality</b>         | Polyclonal                                                                                               |
| <b>Format</b>            | Lyophilized                                                                                              |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Profilin-2(PFN2) detection. Tested with WB, IHC-P in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                     |

## Additional Information

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|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 5217                                                                                                                                                                |
| <b>Other Names</b>              | Profilin-2, Profilin II, PFN2                                                                                                                                       |
| <b>Calculated MW</b>            | 15046                                                                                                                                                               |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat<br>Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse                          |
| <b>Subcellular Localization</b> | Cytoplasm, cytoskeleton.                                                                                                                                            |
| <b>Tissue Specificity</b>       | Highly expressed in brain, skeletal muscle and kidney and less strongly in heart, placenta, lung and liver.                                                         |
| <b>Source</b>                   | Eukaryota                                                                                                                                                           |
| <b>Protein Name</b>             | Profilin-2                                                                                                                                                          |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                       |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human Profilin 2(125-140aa NKKAYSMAYLRDSGF), identical to the related mouse and rat sequences. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                        |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                             |

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|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |
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## Protein Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | PFN2                                                                                                                                                                                                                                            |
| <b>Function</b>          | Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. |
| <b>Cellular Location</b> | Cytoplasm, cytoskeleton.                                                                                                                                                                                                                        |
| <b>Tissue Location</b>   | Highly expressed in brain, skeletal muscle and kidney and less strongly in heart, placenta, lung and liver                                                                                                                                      |

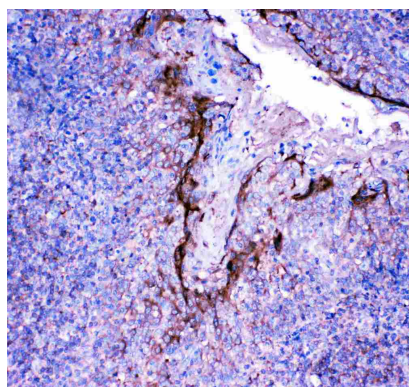
## Background

Profilin-2, also called PFN2, is a protein that in humans is encoded by the PFN2 gene. The protein encoded by this gene is a ubiquitous actin monomer-binding protein belonging to the profilin family. This gene is mapped to 3q25.1. It is thought to regulate actin polymerization in response to extracellular signals. There are two alternatively spliced transcript variants encoding different isoforms described for this gene. It binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG.

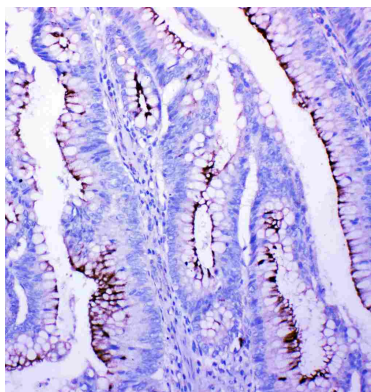
## Images



Anti- Profilin2 antibody, ABO11473, Western blotting  
lanes: Anti Profilin2 (ABO11473) at 0.5ug/ml  
WB: Rat Brain Tissue Lysate at 50ug  
Predicted bind size: 15KD  
Observed bind size: 15KD



Anti- Profilin2 antibody, ABO11473, IHC(P)  
IHC(P): Human Tonsil Tissue



Anti- Profilin2 antibody, ABO11473, IHC(P)IHC(P): Human Intestinal Cancer Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.