

## Datasheet: VMA00629KT

|                      |                                    |
|----------------------|------------------------------------|
| <b>Description:</b>  | PTPN6 ANTIBODY WITH CONTROL LYSATE |
| <b>Specificity:</b>  | PTPN6                              |
| <b>Format:</b>       | Purified                           |
| <b>Product Type:</b> | PrecisionAb™ Monoclonal            |
| <b>Clone:</b>        | AB01/4C6-1                         |
| <b>Isotype:</b>      | IgG1                               |
| <b>Quantity:</b>     | 2 Westerns                         |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                  | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ▪   |    |                | 1/1000             |

**PrecisionAb antibodies have been extensively [validated for the western blot application](#).** The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Preparation</b>              | 20µl Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant   |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Immunogen</b>                | <i>E. coli</i> -derived recombinant human PTPN6 (aa 391-595)  |
| <b>External Database Links</b>  | <p><b>UniProt:</b><br/> <a href="#">P29350</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">5777</a> PTPN6   <a href="#">Related reagents</a></p> |
| <b>Synonyms</b>                 | HCP, PTP1C  |

|                                      |   |
|--------------------------------------|---|
| <b>Specificity</b>                   | <p><b>Mouse anti Human PTPN6 antibody</b> recognizes PTPN6, also known as SHP1, HCP, tyrosine-protein phosphatase non-receptor type 6 or hematopoietic cell phosphatase.</p> <p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported (provided by RefSeq, Jul 2008).</p> <p>Mouse anti Human PTPN6 antibody detects a band of 64 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.</p> |
| <b>Western Blotting</b>              | Mouse anti PTPN6 antibody detects a band of approximately 64 kDa in HEK293 cell lysates   |
| <b>Instructions For Use</b>          | Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.   |
| <b>Lysate Composition</b>            | 400µg HEK293 lysate lyophilized in RIPA buffer  |
| <b>Lysate Reconstitution</b>         | <p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H<sub>2</sub>O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>  |
| <b>Storage</b>                       | <p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>  |
| <b>Guarantee</b>                     | As supplied, 12 months from date of despatch  |
| <b>Acknowledgements</b>              | PrecisionAb™ is a trademark of Bio-Rad Laboratories   |
| <b>Health And Safety Information</b> | <p>Material Safety Datasheet documentation #10040 #10561 available at:</p> <p>Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a></p> <p>Lysate Material (10561): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</a></p>   |
| <b>Regulatory</b>                    | For research purposes only  |

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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