

## Datasheet: MCA3223Z

<b>Description:</b>	MOUSE ANTI HUMAN KRAS:Preservative Free
<b>Specificity:</b>	KRAS
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3B10-2F2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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	▪			0.1 - 10 ug/ml
Immunofluorescence	▪			0.1 - 10 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Ig concentration 0.5 mg/ml
<b>Immunogen</b>	Recombinant protein corresponding to aa 1 - 189 of human KRAS.
<b>External Database Links</b>	<b>UniProt:</b>

[P01116](#)   [Related reagents](#)

**Entrez Gene:**

[3845](#)   KRAS   [Related reagents](#)

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<b>Synonyms</b>	KRAS2, RASK2
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<b>RRID</b>	AB_2296794
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<b>Fusion Partners</b>	Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Human KRAS antibody, clone 3B10-2F2</b> recognizes human KRAS, also known as GTPase KRas or c-Ki-ras. KRAS is a 189 amino acid ~21 kDa membrane bound cytosolic protein involved in the regulation of cell proliferation. Defects in the KRAS gene have been implicated in leukemias, Noonan syndrome and gastric cancer (<a href="#">UniProt: P01116</a>).</p> <p>Mouse anti Human KRAS antibody, clone 3B10-2F2 has been used successfully for the demonstration of KRAS expression in malignant peripheral nerve sheath tumor cell lysates by western blotting (<a href="#">Miller <i>et al.</i> 2013</a>).</p>
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<b>References</b>	<ol style="list-style-type: none"><li>1. Kohli, L .<i>et al.</i> (2013) 4-Hydroxytamoxifen induces autophagic death through K-Ras degradation. <a href="#">Cancer Res. 73 (14): 4395-405.</a></li><li>2. Brossier, N.M. <i>et al.</i> (2015) Classic Ras Proteins Promote Proliferation and Survival via Distinct Phosphoproteome Alterations in Neurofibromin-Null Malignant Peripheral Nerve Sheath Tumor Cells. <a href="#">J Neuropathol Exp Neurol. 74 (6): 568-86.</a></li></ol>
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<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA3223Z">https://www.bio-rad-antibodies.com/SDS/MCA3223Z</a></p> <p>10162</p>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

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|---|--|
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>                              |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>                              |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>                             |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a> |

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M405912:220916'

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