

Datasheet: MCA3223Z

BATCH NUMBER 171014

Description:	MOUSE ANTI HUMAN KRAS:Preservative Free
Specificity:	KRAS
Format:	Preservative Free
Product Type:	Monoclonal Antibody
Clone:	3B10-2F2
Isotype:	IgG1
Quantity:	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.

	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.

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

**External Database
Links**

UniProt:

[P01116](#) [Related reagents](#)

Entrez Gene:

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

Synonyms

KRAS2, RASK2

RRID

AB_2296794

Fusion Partners

Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.

Specificity

Mouse anti Human KRAS antibody, clone 3B10-2F2 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 ([UniProt: P01116](#)).

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 ([Miller *et al.* 2013](#)).

References

1. Kohli, L. *et al.* (2013) 4-Hydroxytamoxifen induces autophagic death through K-Ras degradation. [Cancer Res. 73 \(14\): 4395-405.](#)
2. Brossier, N.M. *et al.* (2015) Classic Ras Proteins Promote Proliferation and Survival via Distinct Phosphoproteome Alterations in Neurofibromin-Null Malignant Peripheral Nerve Sheath Tumor Cells. [J Neuropathol Exp Neurol. 74 \(6\): 568-86.](#)

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
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.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10162 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA3223Z>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
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 \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M405912:220916'

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