

## Datasheet: MCA5696

<b>Description:</b>	MOUSE ANTI HUMAN CHROMOGRANIN A
<b>Specificity:</b>	CHROMOGRANIN A
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LK2H10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			1/100 - 1/500
ELISA			▪	
Western Blotting	▪			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

**(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Pig, Monkey

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture

supernatant

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**Buffer Solution** Phosphate buffered saline

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**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)

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**Carrier Free** Yes

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Human pheochromocytoma tissue.

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**External Database Links**

**UniProt:**

[P10645](#) [Related reagents](#)

[P26339](#) [Related reagents](#)

[P04404](#) [Related reagents](#)

**Entrez Gene:**

[1113](#) CHGA [Related reagents](#)

[12652](#) Chga [Related reagents](#)

[397540](#) CHGA [Related reagents](#)

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**RRID** AB\_10718986

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**Fusion Partners** Spleen cells from immunised Balb/c mice were fused with cells of the NS-1 mouse myeloma cell line.

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**Specificity** **Mouse anti Human Chromogranin A antibody, clone LK2H10** specifically recognizes chromogranin A (CgA), a secretory glycoprotein and member of the chromogranin/secretogranin family, widely expressed by cells of the neuroendocrine system and related tumours, which is used in immunohistochemistry as a valuable diagnostic marker for pheochromocytomas, paragangliomas and carcinoid, pancreatic and prostate tumours.

CgA constitutes one of the most abundant components of secretory granules, and is the precursor to several functional peptides, including vasostatin and pancreastatin.

Clone LK2H10 has been shown to be suitable for use on cytopins ([Jensen \*et al.\* 1990](#)).

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**Histology Positive Control Tissue** Normal Pancreas

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**References**

1. Lloyd, R.V. & Wilson, B.S. (1983) Specific endocrine tissue marker defined by a monoclonal antibody. [Science. 222 \(4624\): 628-30.](#)
2. DeStephano, D.B. *et al.* (1984) Pituitary adenomas. An immunohistochemical study of hormone production and chromogranin localization. [Am J Pathol. 116 \(3\): 464-72.](#)

3. Jensen, S.M. *et al.* (1990) A comparison of synaptophysin, chromogranin, and L-dopa decarboxylase as markers for neuroendocrine differentiation in lung cancer cell lines. [Cancer Res. 50 \(18\): 6068-74.](#)
4. Lloyd, R.V. *et al.* (1984) Immunohistochemical detection of chromogranin and neuron-specific enolase in pancreatic endocrine neoplasms. [Am J Surg Pathol. 8 \(8\): 607-14.](#)
5. Walts, A.E. *et al.* (1985) Chromogranin as a marker of neuroendocrine cells in cytologic material--an immunocytochemical study. [Am J Clin Pathol. 84 \(3\): 273-7.](#)
6. Wilson, B.S. & Lloyd, R.V. (1984) Detection of chromogranin in neuroendocrine cells with a monoclonal antibody. [Am J Pathol. 115 \(3\): 458-68.](#)
7. Wilson, B.S. *et al.* (1986) Chromogranin from normal human adrenal glands: purification by monoclonal antibody affinity chromatography and partial N-terminal amino acid sequence. [Regul Pept. 13 \(3-4\): 207-23.](#)
8. Galfré, G. *et al.* (1977) Antibodies to major histocompatibility antigens produced by hybrid cell lines. [Nature. 266 \(5602\): 550-2.](#)
9. Pernicová, Z. *et al.* (2011) Androgen depletion induces senescence in prostate cancer cells through down-regulation of Skp2. [Neoplasia. 13: 526-36.](#)
10. Endo, C. *et al.* (2009) Immunocytochemical evaluation of large cell neuroendocrine carcinoma of the lung. [Acta Cytol. 53: 36-40.](#)
11. Jeong, S. *et al.* (2016) Distinct metaplastic and inflammatory phenotypes in autoimmune and adenocarcinoma-associated chronic atrophic gastritis [United European Gastroenterology Journal. Apr 11 \[Epub ahead of print\]](#)
12. Nam, K.T. *et al.* (2012) Gastric tumor development in Smad3-deficient mice initiates from forestomach/glandular transition zone along the lesser curvature. [Lab Invest. 92 \(6\): 883-95.](#)
13. O'Neal, R.L. *et al.* (2013) Human epididymis protein 4 is up-regulated in gastric and pancreatic adenocarcinomas. [Hum Pathol. 44 \(5\): 734-42.](#)

<b>Storage</b>	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.  Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>

Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[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)

'M384302:210513'

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