

Datasheet: MCA5696

BATCH NUMBER 155117

Description:	MOUSE ANTI HUMAN CHROMOGRANIN A
Specificity:	CHROMOGRANIN A
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	LK2H10
Isotype:	IgG1
Quantity:	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.

	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	<p>Reacts with: Pig, Monkey</p> <p>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.</p>
Product Form	Purified IgG - liquid

Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human pheochromocytoma tissue.
External Database Links	<p>UniProt:</p> <p>P10645 Related reagents</p> <p>P26339 Related reagents</p> <p>P04404 Related reagents</p> <p>Entrez Gene:</p> <p>1113 CHGA Related reagents</p> <p>12652 Chga Related reagents</p> <p>397540 CHGA Related reagents</p>
RRID	AB_10718986
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS-1 mouse myeloma cell line.
Specificity	<p>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.</p> <p>CgA constitutes one of the most abundant components of secretory granules, and is the precursor to several functional peptides, including vasostatin and pancreastatin.</p> <p>Clone LK2H10 has been shown to be suitable for use on cytopins (Jensen <i>et al.</i> 1990).</p>
Histology Positive Control Tissue	Normal Pancreas
References	<ol style="list-style-type: none"> 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. <i>et al.</i> (1984) Pituitary adenomas. An immunohistochemical study of

- hormone production and chromogranin localization. [Am J Pathol. 116 \(3\): 464-72.](#)
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 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.](#)

Storage	<p>Store at +4°C or at -20°C if preferred.</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>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA5696</p> <p>10040</p>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
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
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP

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