

## Product Datasheet

### Chromogranin A Antibody (orb749464)

<b>Catalog Number</b>	orb749464
<b>Category</b>	Antibodies
<b>Description</b>	<p>Chromogranin A is present in neuroendocrine cells throughout the body, including the neuroendocrine cells of the large and small intestine, adrenal medulla and pancreatic islets. It is an excellent marker for carcinoid tumors, pheochromocytomas, paragangliomas, and other neuroendocrine tumors. Co-expression of chromogranin A and neuron specific enolase (NSE) is common in neuroendocrine neoplasms. Reportedly, co-expression of certain keratins and chromogranin indicates neuroendocrine lineage. The presence of strong anti-chromogranin staining and absence of anti-keratin staining should raise the possibility of paraganglioma. The co-expression of chromogranin and NSE is typical of neuroendocrine neoplasms. Most pituitary adenomas and prolactinomas readily express chromogranin.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Rat
<b>Buffer/Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	Recombinant human protein was used as the immunogen for the Chromogranin A antibody.
<b>UniProt ID</b>	<b>P10645</b>

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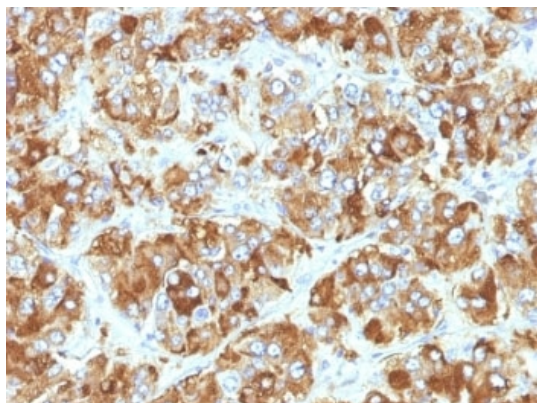
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<b>Tested applications</b>	IHC-P
<b>Dilution range</b>	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Application notes</b>	Optimal dilution of the Chromogranin A antibody should be determined by the researcher.1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 minutes2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	CHGA/798
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



IHC: Formalin-fixed, paraffin-embedded human adrenal gland stained with Chromogranin A antibody (CHGA/798)

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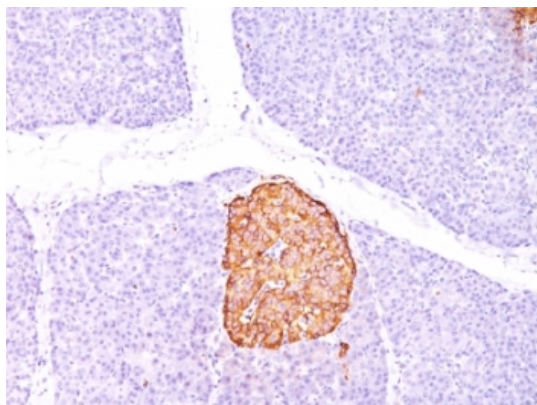
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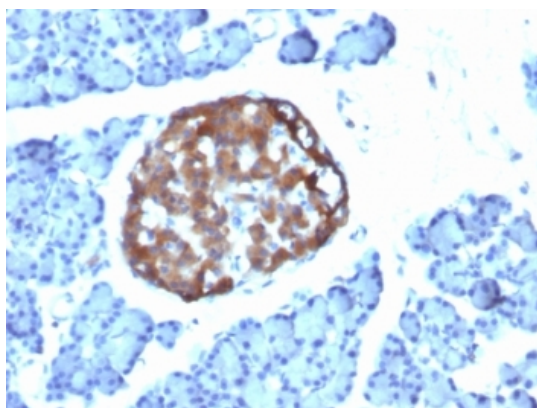
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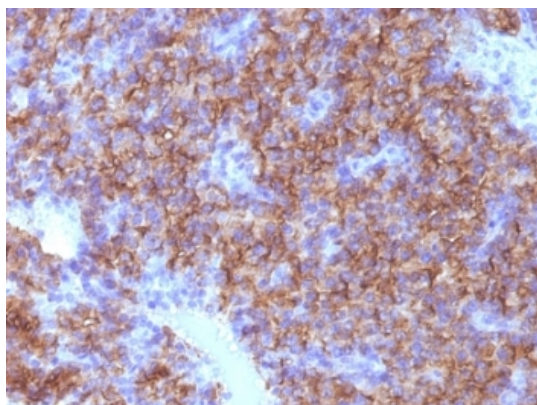
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IHC: Formalin-paraffin human pancreas stained with Chromogranin A antibody (CHGA/798)



IHC: Formalin-paraffin rat pancreas stained with Chromogranin A antibody (CHGA/798)



IHC: Formalin-fixed, paraffin-embedded human parathyroid stained with Chromogranin A antibody (CHGA/798)

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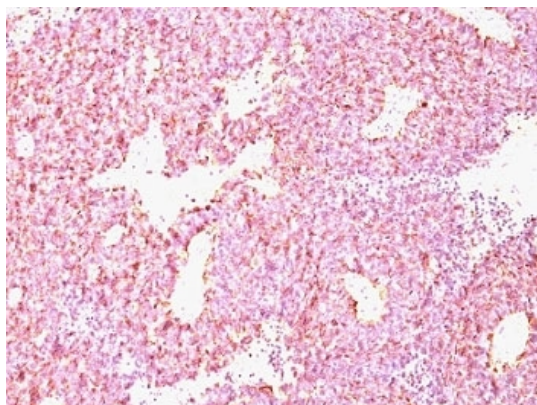
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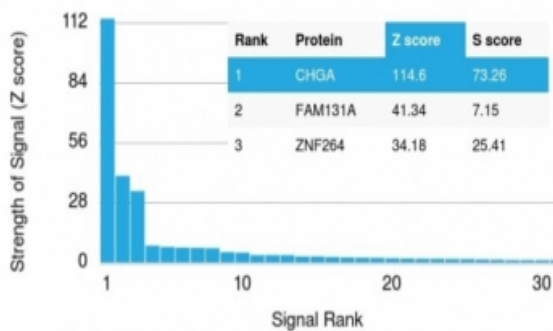
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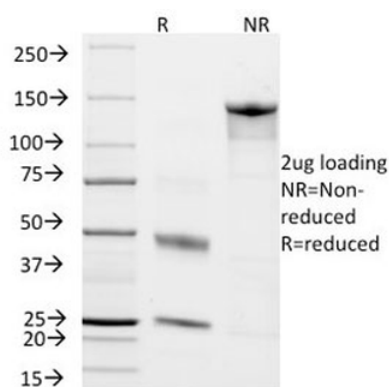


IHC: Formalin-paraffin human SC lung carcinoma stained with Chromogranin A antibody (CHGA/798)

### Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19,000 full-length human proteins using Chromogranin A antibody (clone CHGA/798). These results demonstrate the foremost specificity of the CHGA/798 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Chromogranin A antibody (clone CHGA/798) as confirmation of integrity and purity.

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