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CGRP-1/2 Rabbit pAb

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Catalog # AP52064

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P01258
Reactivity	Rat, Human
Predicted	Pig, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15467
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Calcitonin gene-related peptide 1
Epitope Specificity	65-130/130
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
DISEASE	Sepsis: Measurement of procalcitonin can be used as a marker of severe sepsis caused by bacteria and generally grades well with the degree of sepsis, although levels of procalcitonin in the blood are very low. PCT has the greatest sensitivity (85%) and specificity (91%) for differentiating patients with systemic inflammatory response syndrome (SIRS) from those with sepsis, when compared with IL-2, IL-6, IL-8, CRP and TNF-alpha. Evidence is emerging that procalcitonin levels can reduce unnecessary antibiotic prescribing to people with lower respiratory tract infections. Currently, procalcitonin assays are widely used in the clinical environment. Pneumonia: Procalcitonin levels may be useful to distinguish bacterial infections from nonbacterial infections. This may help guide antibiotic use, which can help save on cost and drug resistance. Kidney disease: Patients with chronic kidney disease and end-stage renal disease are at higher risk for infections, and procalcitonin has been studied in these populations, who often have higher levels. Procalcitonin can be dialyzed, and so levels are dependent upon when patients receive hemodialysis. While there is no formally accepted cutoff value for patients undergoing HD, using a value of greater or equal to 0.5 ng/mL yielded a sensitivity of 97-98% and a specificity of 70-96%. Hepatitis: PCT, possibly together with CRP, is used to corroborate the MELD score.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Procalcitonin (PCT) is a peptide precursor of the hormone calcitonin, the latter being involved with calcium homeostasis. It arises once preprocalcitonin is cleaved by endopeptidase. It is composed of 116 amino acids and is produced by parafollicular cells (C cells) of the thyroid and by the neuroendocrine cells of the lung and the intestine.

Additional Information

Gene ID	796
Other Names	Calcitonin, Calcitonin, CT, Katacalcin, Calcitonin carboxyl-terminal peptide, CCP, PDN-21, CALCA (HGNC:1437), CALC1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CALCA (HGNC:1437)
Synonyms	CALC1
Function	[Calcitonin]: Calcitonin is a peptide hormone that causes a rapid but short-lived drop in the level of calcium and phosphate in blood by promoting the incorporation of those ions in the bones. Calcitonin function is mediated by the calcitonin receptor/CALCR and the CALCR-RAMP2 (AMYR2) receptor complex (PubMed:35324283).
Cellular Location	Secreted.

Background

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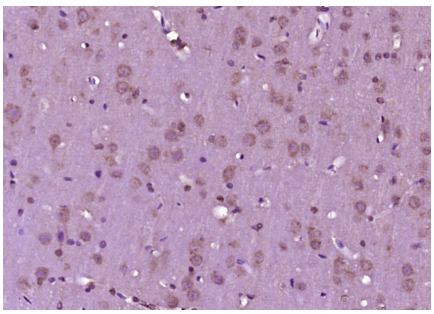
References

Jonas V.,et al.Proc. Natl. Acad. Sci. U.S.A. 82:1994-1998(1985).
Amara S.G.,et al.Nature 298:240-244(1982).
Amara S.G.,et al.Science 229:1094-1097(1985).

Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CGRP) Polyclonal Antibody, Unconjugated (AP52064) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.