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Urocortin 3 Rabbit pAb

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Catalog # AP58057

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q969E3
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17961
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human UCN3
Epitope Specificity	120-157/161
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Urocortin 3 is a member of the sauvagine/corticotropin-releasing factor/urotensin I family. It is structurally related to the corticotropin-releasing factor (CRF) gene and the encoded product is an endogenous ligand for CRF type 2 receptors. In the brain it may be responsible for the effects of stress on appetite. In spite of the gene family name similarity, the product of this gene has no sequence similarity to urotensin II. A powerful cytoprotective effect of urocortin peptide administration against ischemia and reperfusion injury has been demonstrated in isolated cardiomyocyte models, as well as in the intact heart both in vitro and in vivo.

Additional Information

Gene ID	114131
Other Names	Urocortin-3, Stresscopin, Urocortin III, Ucn III, UCN3, SPC
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.

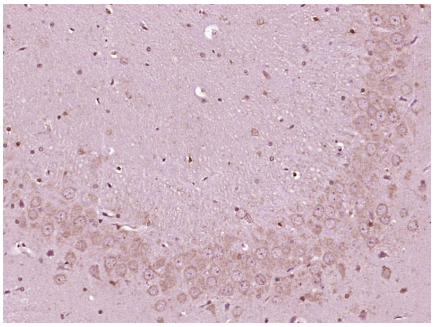
Protein Information

Name	UCN3 {ECO:0000303|PubMed:20966082, ECO:0000312|HGNC:HGNC:17781}
Function	Hormone that plays a central role in whole body adaptation to stress (PubMed:11329063, PubMed:11416224). Released by the hypothalamus primarily in response to physical or psychological stress and acts by binding to CRH receptor CRHR2 (PubMed:11329063, PubMed:11416224, PubMed:20966082, PubMed:26350463). UCN3-dependent signaling plays a key role in the metabolic regulation and energy homeostasis in responses to stress, acting as an anxiolytic (PubMed:11329063, PubMed:11416224). Promotes energy balance by reducing food intake, improving insulin sensitivity and managing blood glucose levels in response to metabolic stress (By similarity). In contrast to CRH and UCN, does not activate the hypothalamus-pituitary-adrenal axis to promote corticotropin hormone (ACTH) production (PubMed:11329063).
Cellular Location	Secreted.

Background

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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 (Urocortin 3) Polyclonal Antibody, Unconjugated (AP58057) 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'.