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GCHFR Rabbit pAb

Catalog # AP98847

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P30047
Other Accession	P30047
Reactivity	Rat
Predicted	Pig, Human, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	9698
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GCHFR
Epitope Specificity	21-60/84
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GFRP family.
SUBUNIT	Homopentamer. Forms a complex with GCH1 where a GCH1 homodecamer is sandwiched by two GFRP homopentamers (By similarity). Interacts with GCH1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GTP cyclohydrolase I feedback regulatory protein (GFRP) is encoded by the gene GCHFR. GFRP mediates feedback inhibition of GTP cyclohydrolase I activity by tetrahydrobiopterin. GFRP also acts as a mediator for the stimulatory effect of phenylalanine on enzyme activity. L-phenylalanine reverses this inhibition. The molecular weight of GFRP is approximately 9.5kDa although cross-linking experiments have shown that GFRP is usually found as a homodimer or as a pentamer. 15q15.

Additional Information

Gene ID	2644
Other Names	GFRP_BOVIN; GCHFR; GFRP; GTP cyclohydrolase I feedback regulatory protein; GFRP_HUMAN; p35; GFRP_MOUSE; GFRP_RAT; GTP cyclohydrolase I feedback regulator
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	GCHFR
Synonyms	GFRP
Function	Mediates tetrahydrobiopterin inhibition of GTP cyclohydrolase 1. This inhibition is reversed by L-phenylalanine.
Cellular Location	Nucleus. Nucleus membrane. Cytoplasm, cytosol
Tissue Location	In epidermis, expressed predominantly in basal undifferentiated keratinocytes and in some but not all melanocytes (at protein level).

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