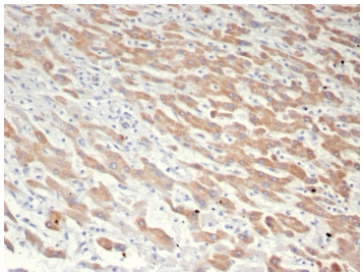
GFRP Antibody / GCHFR [clone GCHFR/7731] (V4384)

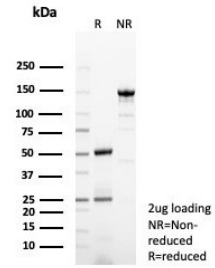
Catalog No.	Formulation	Size
V4384-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4384-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4384SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	GCHFR/7731
Purity	Protein A/G affinity
UniProt	P30047
Localization	Cytoplasm (Lysosome)
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This GFRP antibody is available for research use only.



GFRP Antibody Liver Cancer IHC. Immunohistochemistry analysis of FFPE human hepatocellular carcinoma tissue stained with GFRP antibody clone GCHFR/7731 demonstrates diffuse cytoplasmic HRP-DAB brown staining throughout tumor-associated hepatic cellular populations, consistent with expression of GTP cyclohydrolase I feedback regulator / GCHFR in tetrahydrobiopterin metabolism and nitric oxide-associated metabolic signaling pathways. The observed staining profile aligns with the intracellular cofactor regulatory role of GFRP within metabolically active hepatic tissue environments. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free GFRP antibody (clone GCHFR/7731) as confirmation of integrity and purity.

Description

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. Cross-linking experiments have shown that GFRP is usually expressed as a homodimer or pentamer.

For broader analysis of BH4 metabolism and nitric oxide-associated signaling biology, see our GCHFR Antibody / Tetrahydrobiopterin Metabolism Regulator Antibody.

Application Notes

Optimal dilution of the GFRP antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human protein was used as the immunogen for the GCHFR antibody.

Storage

Aliquot the GFRP antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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