

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GCHFR in ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 846011
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human GCHFR Met1-Glu84 Accession # P30047
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

GCHFR (GTP cyclohydrolase I feedback receptor), also called GFRP, is an 84 amino acid enzyme inhibitor that binds to and regulates the activity of GTP cyclohydrolase I. GTP cyclohydrolase I is the rate-limiting enzyme in biosynthesis of tetrahydrobiopterin, an essential cofactor for nitric oxide synthases and aromatic hydrolases. GCHFR is found as a 20 kDa homodimer in the nucleus and cytoplasm of multiple cell types, including endothelial cells, keratinocytes and melanocytes. Human GCHFR shares 93% amino acid sequence identity with mouse and rat GCHFR, which in turn share 100% identity with each other.

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