

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lysine Hydroxylase 2/PLOD2 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 408105
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Lysine Hydroxylase 2/PLOD2 Ala26-Pro758 Accession # NP_891988
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunoprecipitation	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

Lysine Hydroxylase 2 (LH2) also known as PLOD2 (procollagen-lysine, 2 oxoglutarate 5 dioxygenase 2) is a membrane-bound homodimeric enzyme localized to the cisternae of the rough ER. The enzyme catalyzes the hydroxylation of lysine residues in collagen-like peptides, which in turn serves as sites for carbohydrate attachment in collagen. Two alternatively spliced forms have 737 or 758 amino acids (aa). Human LH2 (758 aa form) shares 92.5% aa sequence identity with the appropriate isoform of mouse and rat LH2.

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