

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse alpha-Fetoprotein in direct ELISA.
Source	Monoclonal Rat IgG ₁ Clone # 870826
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse alpha-Fetoprotein/AFP Lys19-Val605 Accession # P02772
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

ELISA 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

AFP (α -Fetoprotein) is a 69-73 kDa member of the ALB/AFP/VDB family of proteins. It is secreted by fetal liver and serves as a carrier molecule for phytoestrogens, heavy metals (Cu and Ni), estrogen and fatty acids. Mature mouse AFP is 587 amino acids (aa) in length. It contains three albumin domains (aa 20-201, 208-393 and 400-591), plus 15 intrachain disulfide bonds. Rat AFP contains an alternate start site at Met287 that may generate an intracellular 37 kDa form. Mouse AFP also shows an analogous site at Met281 that may produce an equivalent isoform. Over aa 19-605, mouse AFP shares 83% and 66% aa identity with rat and human AFP, respectively.

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