

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Hormone-sensitive Lipase/HSL in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 729923
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Hormone-sensitive Lipase/HSL Met302-Leu425 Accession # Q05469
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunohistochemistry	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

HSL (hormone-sensitive lipase), also called LIPE, is an 84 kDa phosphoprotein that is the rate-limiting enzyme in the catalytic breakdown of triglycerides. The human 775 amino acid (aa) form is active in adipose tissue and skeletal muscle. Within the region used as an immunogen, human HSL shares 92% and 93% aa sequence identity with mouse and rat HSL, respectively. HSL translocates to triglyceride-metabolizing lipid droplets in response to epinephrine or contraction in skeletal muscle, but to the cytosol following insulin treatment of adipocytes. A 120 kDa isoform of human HSL with a 301 aa N-terminal extension is present in the testes, localized to elongating spermatids and spermatozoa.

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