

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse HMGB3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human HMG-1, A1A, A1B, or A2 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 546519
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human HMGB3 Met1-Glu180 Accession # O15347
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.
Immunocytochemistry	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

High mobility group protein B3 (HMGB3; also HMG-4 and HMG-2a) is a 23 kDa nuclear protein and member of the HMGB family. Human HMGB3 is synthesized as a 200 amino acid (aa) precursor, which is demethylated to produce the 199 aa mature chain. The protein contains two HMG box DNA-binding domains (aa 9-79 and 93-161) and an acidic Asp/Glu-rich region (aa 181-200). Human HMGB3 shares 98% aa sequence identity with mouse and bovine HMGB3. HMGB3 is expressed predominantly in the placenta. It binds preferentially single-stranded DNA and unwinds double stranded DNA.

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