

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human Claspin in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 485508
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Claspin Phe1138-Ser1339 Accession # Q9HAW4
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.

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

Claspin is a nuclear protein whose expression peaks during S and G2 phases of the cell cycle. Claspin is phosphorylated by ATR in response to DNA damage or replication stress. It functions in cell cycle checkpoint control by regulating the activation of Chk1 and BRCA1. Claspin contains three CKB motifs and two coiled coil regions. Over the range used for immunization, human and mouse Claspin share 72% amino acid sequence identity. DNA replication and DNA damage induce the phosphorylation of Claspin by Chk1-dependent mechanisms.

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