Human Claspin Antibody

Monoclonal Mouse IgG_1 Clone # 485508

Catalog Number: MAB3310

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	*E. coli*-derived recombinant human Claspin Phe1138-Ser1339 Accession # Q9HAW4
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

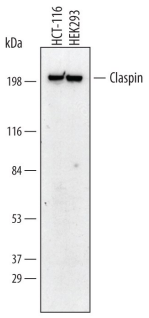
APPLICATIONS

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.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human Claspin by Western Blot. Western blot shows lysates of HCT-116 human colorectal carcinoma cell line and HEK293 human embryonic kidney cell line. PVDF membrane was probed with 1 µg/mL of Human Claspin Monoclonal Antibody (Catalog # MAB3310) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Claspin at approximately 220 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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