

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cortactin in ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 771716
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Cortactin Met1-Gly85 Accession # Q14247
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
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

Cortactin (also EMS1 and Amplexin) is an 80-85 kDa multidomain scaffold-associated protein. It is an actin-binding cytoplasmic protein found at intercellular junctions and near lamellipodia. It is also found in tumor invadopodia, a somewhat analogous structure to lamellipodia. Here, Cortactin appears to coordinate actin assembly with MMP secretion, thus facilitating tumor invasiveness. Human Cortactin is 550 amino acids (aa) in length and contains six-plus Cortactin regions (aa 80-324) that regulate actin polymerization, and one SH3 domain (aa 496-548) that binds to N-WASP. Cortactin is highly phosphorylated on Tyr and Ser/Thr, and undergoes acetylation.

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