

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cyclin E2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 718916
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Cyclin E2 Met1-Gln140 Accession # O96020
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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

Cyclin E2, also known as CCNE2, is an approximately 45-50 kDa protein that associates with the kinase Cdk2. This complex phosphorylates multiple substrates involved in regulation of cell cycle progression and the initiation of DNA replication. Cyclin E2 is required for G1/S phase progression and cell cycle reentry from G0 phase. Cyclin E2 most highly expressed in testis, thymus, and brain and is frequently upregulated in cancer. Cyclin E2 contains two cyclin box folds (amino acids 141-231 and amino acids 241-361). An alternate splice form lacks 45 amino acids (aa) within the first cyclin box fold. Within aa 1-140, human Cyclin E2 shares 90% aa sequence identity with mouse and rat Cyclin E2.

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