

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AICDA in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 359218
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human AICDA Met1-Leu198 Accession # Q9GZX7
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.

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

AICDA, also known as AID, is a 24 kDa cytidine deaminase that converts deoxycytidine to deoxyuridine in single stranded DNA. Its expression is restricted to activated lymph node and tonsillar B cells and is required for terminal B cell differentiation. Loss of function mutations of AICDA cause severe humoral immunodeficiency by preventing immunoglobulin class switching and somatic hypermutation. Human AICDA shares 92% - 95% amino acid sequence identity with bovine, canine, and mouse AICDA.

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