

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ATAD2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 952947
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human ATAD2 synthetic peptide Accession # Q6PL18
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

ATAD2/ANCCA/PRO2000 is an AAA (ATPases Associated with diverse cellular Activities) protein with two AAA domains and a bromodomain. ATAD2 is a coactivator in the regulatory process of ER alpha induction of target genes in breast cancer. Upon activation by estrogen, ATAD2 associates with ER alpha and ACTR and subsequently promotes expression of ER alpha target genes cyclin D1, c-myc and E2F1 in breast cancer cells. ATAD2 also binds and hydrolyzes ATP, mediating hypermethylation of protein complexes. ATAD2 is reported to be a prognostic biomarker in endometrial, lung, ovarian and gastric cancers. The function of ATAD2 has also been reported in other carcinomas, including cervical, hepatocellular, colorectal and lung cancers.

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