

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Histone H2AX.
Source	Monoclonal Mouse IgG _{2B} Clone # 1077751
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human H2AX Gly3-Ser131 Accession # P16104
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

Histone H2AX is a core histone protein that is phosphorylated at S139 in cells exposed to DNA double-strand break-inducing agents, such as ionizing radiation. The S139 phosphorylated H2AX, termed γ-H2AX, marks the site of DNA double-strand breaks and serves to recruit cell cycle checkpoint and DNA repair factors to the site of damage.

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