IDENTiFYN®

CERTIFICATE OF ANALYSIS

Catalog Number	PA-RR 000004
Batch Number(s):	PA-B-0001-RR-gH2AX-FcH
Product Name	Rabbit anti-Human γH2Ax (Serine 139) Recombinant Monoclonal, Human Fc (BLR014M)

PRODUCT SPECIFICATION

Host	Rabbit
Colonality	Recombinant Monoclonal
Subclass	IgG1
Immunogen	Synthetic peptide corresponding to Human gamma H2AX (Phospho Serine 139), referencing Uniprot P16104 and Gene ID 3014
Conjugate	Unconjugated
Form	Liquid
Concentration	1.0 mg/mL
Purification	Affinity chromatography
Storage Buffer	Phosphate Buffer Saline, 10mM, pH 7.4
Preservative	Azide
Cryopreservative	Glycerol
Storage conditions	4°C. Avoid freeze/thaw cycles

APPLICATIONS

Western Blotting	1:500
Immunocytochemistry / Microscopy	1:250

PRODUCT DESCRIPTION

Gamma H2AX (γH2AX) is a variant of the histone H2A protein that plays a crucial role in the cellular response to DNA double-strand breaks (DSBs). Its primary function is to mark DNA damage, particularly in the context of DSBs. When DSBs occur in chromatin, γH2AX is rapidly and phosphorylated explicitly at the serine 139 residue (referred to as Ser139 phosphorylation or γ-phosphorylation) near the site of the break. This phosphorylation event forms visible γH2AX foci.

Uniprot ID	P16104
Gene ID	3014
Gene Symbol	H2AX
Gene Aliases	gamma-H2AX, H2A.X, H2A, Histone H2A, Histone H2AX, H2a/x

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