

## Product datasheet for **TA592841S**

### Histone H2A.X (H2AFX) Rabbit Monoclonal Antibody [Clone ID: OTIR1B2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTIR1B2
Applications:	WB
Recommended Dilution:	WB 1:500-1:5000
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human H2AX (NP_002096). The exact sequence is proprietary.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Predicted Protein Size:	15.1 kDa
Gene Name:	H2A.X variant histone
Database Link:	<a href="#">NP_002096</a> <a href="#">Entrez Gene 15270 Mouse</a> <a href="#">Entrez Gene 3014 Human</a> <a href="#">P16104</a>



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**Background:**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-independent histone that is a member of the histone H2A family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. [provided by RefSeq, Oct 2015]

**Synonyms:**

H2A.X; H2A/X; H2AFX

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Systemic lupus erythematosus

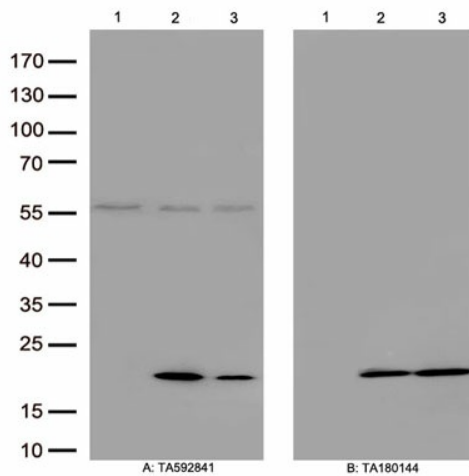
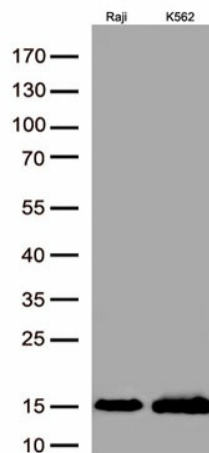
**Product images:**


Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], lane 1) , human H2AX plasmid ([RC201434], lane 2), mouse H2AX plasmid ([MR200934], lane 3) using anti-H2AX antibody [TA592841] (1:5000). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



Western blot analysis of extracts (50ug per lane) from 2 cell lines lysates by using anti-H2AX monoclonal antibody([TA592841], 1:500)