

# Histone H2B Recombinant Polyclonal Antibody (18HCLC)

## Product Details

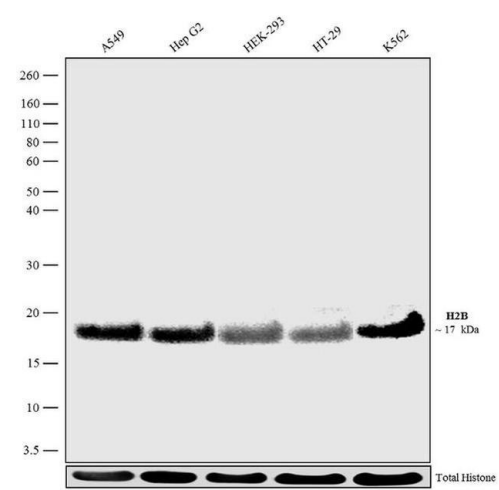
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	18HCLC
Conjugate	Unconjugated
Immunogen	Peptide corresponding to Human HIST2H2BF (aa 117-126)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2607501

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	2 µg/mL	-
ChIP assay (ChIP)	5 µg/mL	-

## Product Specific Information

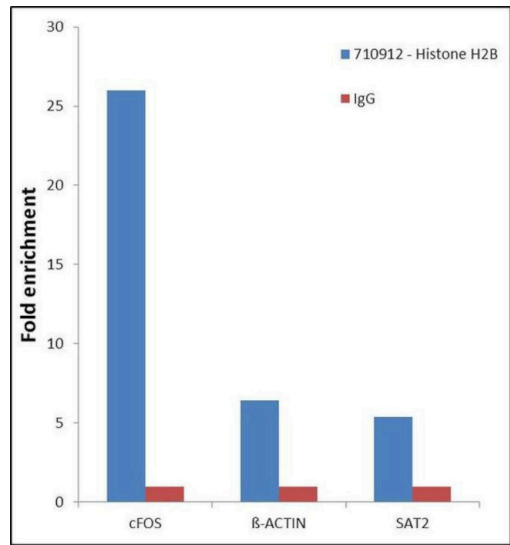
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For Histone H2B Recombinant Polyclonal Antibody (18HCLC)



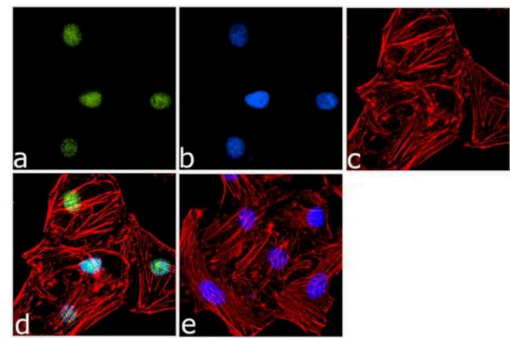
Histone H2B Antibody (710912) in WB

Western blot analysis was performed on acid extracts (30 µg lysate) of A549 (Lane 1), Hep G2 (Lane 2), HEK-293 (Lane 3), HT-29 (Lane 4) and K562 (Lane 5). The blots were probed with Anti-H2B Recombinant Rabbit Polyclonal Antibody (Product # 710912, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 17 kDa band corresponding to H2B was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% Bis-Tris gel (Product # NP0301BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Histone H2B Antibody (710912)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed using Anti-Histone H2B Recombinant Rabbit Polyclonal Antibody (Product # 710912) with relevant positive (c-FOS, B-actin) and negative (SAT2) target genes/binding sites. {RE}



Histone H2B Antibody (710912) in ICC/IF

Immunofluorescence was performed on fixed and permeabilized HeLa cells for detection of H2B using Anti-H2B Recombinant Rabbit Monoclonal Antibody (Product # 710912, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of H2B protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating nuclear localization of H2B. Panel e) represents control cells with no primary antibody to assess background.

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