

HP1 gamma Rabbit mAb

Catalog No: #49690

Package Size: #49690-1 50ul #49690-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

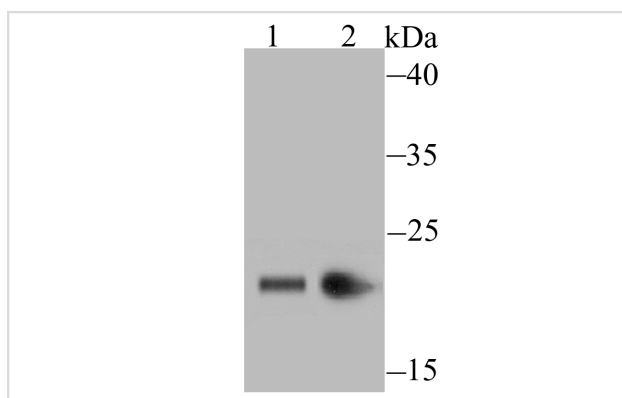
Description

Product Name	HP1 gamma Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU81-36
Purification	ProA affinity purified
Applications	WB,IHC,FC,IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	CBX 3 antibody CBX3 antibody CBX3_HUMAN antibody Chromobox homolog 3 (HP1 gamma homolog, Drosophila) antibody Chromobox homolog 3 antibody Chromobox protein homolog 3 antibody GAMMA antibody HECH antibody Heterochromatin like protein 1 antibody Heterochromatin protein 1 homolog gamma antibody Heterochromatin protein HP1 gamma antibody HP1 gamma antibody HP1 gamma homolog antibody HP1Hs gamma antibody Modifier 2 protein antibody
Accession No.	Swiss-Prot#:Q13185
Uniprot	Q13185
GeneID	11335;
Calculated MW	20 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

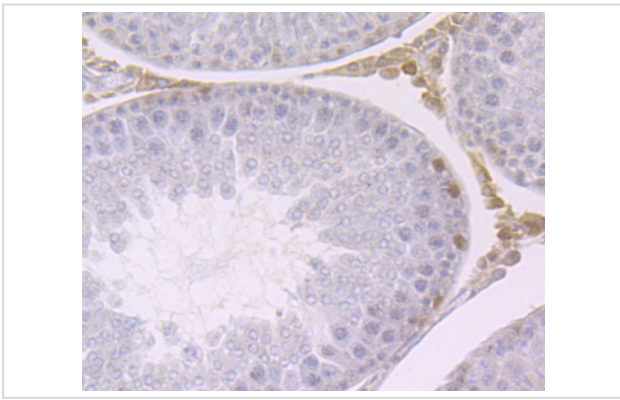
Application Details

WB: 1:500IHC: 1:50-1:200IP: 1:10-1:50FC: 1:50-1:100

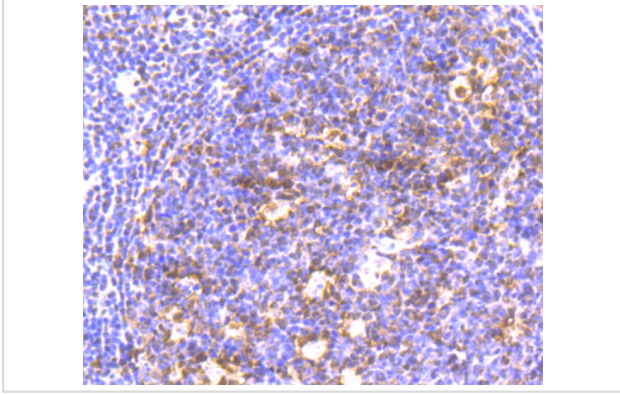
Images



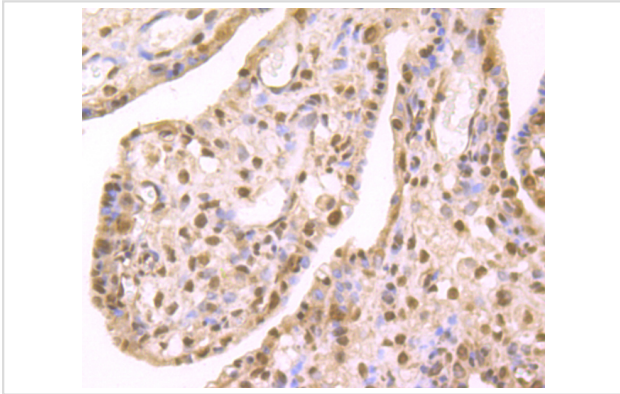
Western blot analysis of HP1 gamma on PC-12 (1) and MCF-7 (2) cell lysate using anti-HP1 gamma antibody at 1/500 dilution.



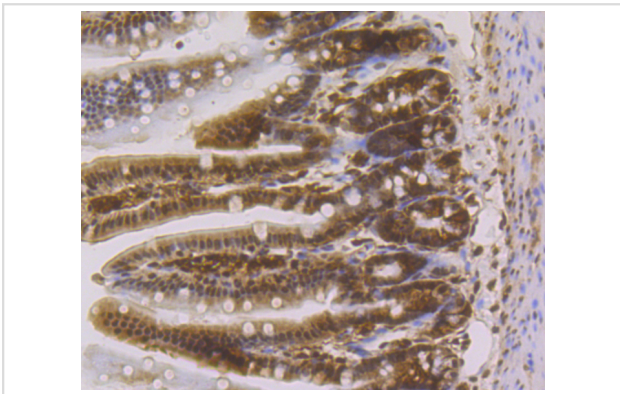
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-HP1 gamma antibody. Counter stained with hematoxylin.



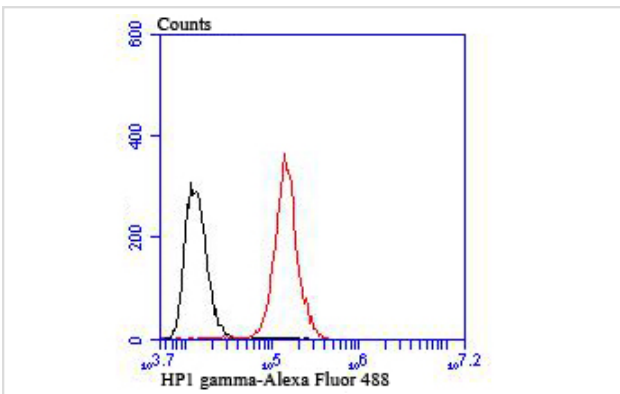
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HP1 gamma antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-HP1 gamma antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-HP1 gamma antibody. Counter stained with hematoxylin.



Flow cytometric analysis of HeLa cells with HP1 gamma antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor[®] 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Chromatin assembly factor-1 (CAF-1) is a multisubunit protein complex that comprises three polypeptide subunits known as p150, p60, and p48. CAF-1 is a nucleosome assembly factor that deposits newly synthesized and acetylated histones H3/H4 into nascent chromatin during DNA replication. The p150 subunit of CAF-1 also supports the maintenance of heterochromatin, which requires the synthesis of both new histones and heterochromatin proteins and their orderly assembly during DNA replication. Heterochromatin is characterized as densely coiled chromatin that generally replicates late during S phase, has a low gene density, and contains large blocks of repetitive DNA that is relatively inaccessible to DNA-modifying reagents. In late S phase, p150 directly associates with heterochromatin associated proteins 1 (HP1 α , HP1 β and HP1 γ). As cells prepare for mitosis, CAF-1 p150 and some HP1 progressively dissociate from heterochromatin, coinciding with the phosphorylation of Histone H3. The HP1 proteins reassociate with chromatin at the end of mitosis, as Histone H3 is dephosphorylated.

References

Note: This product is for in vitro research use only