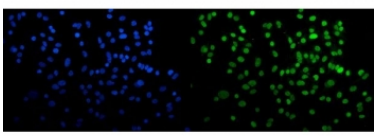
CBX5 Antibody / HP1A / HP1 alpha [clone 8G6] (RQ6361)

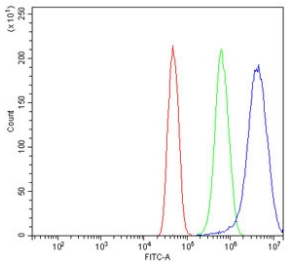
Catalog No.	Formulation	Size
RQ6361	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

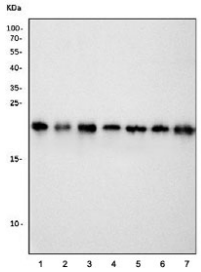
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	8G6
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P45973
Localization	Nuclear
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This CBX5 antibody is available for research use only.



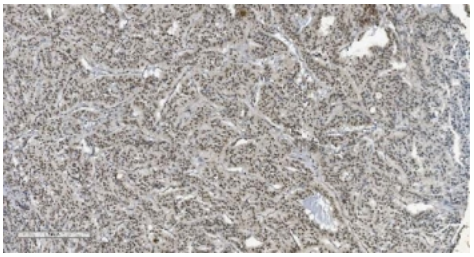
Immunofluorescent staining of FFPE human A549 cells with CBX5 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



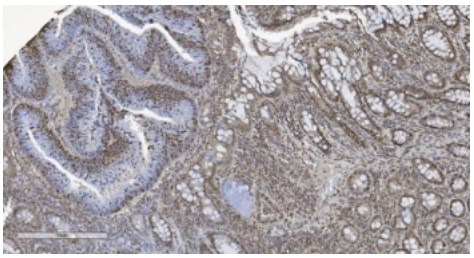
Flow cytometry testing of human U-251 cells with CBX5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CBX5 antibody.



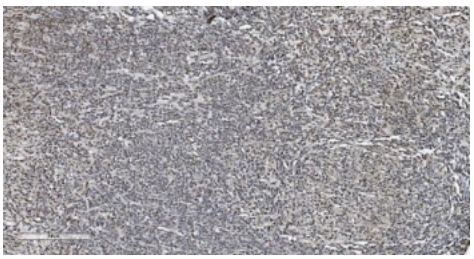
Western blot testing of 1) human U-87 MG, 2) human K562, 3) human Jurkat, 4) rat brain, 5) rat PC-12 and 6) mouse SP2/0 lysate with CBX5 antibody. Predicted molecular weight ~22 kDa.



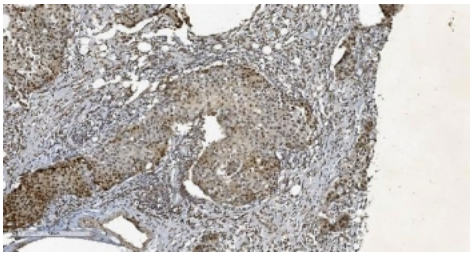
IHC staining of FFPE human adrenocortical adenoma tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



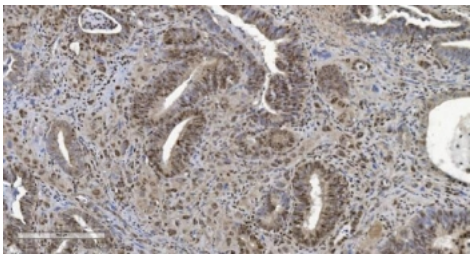
IHC staining of FFPE human rectal cancer tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



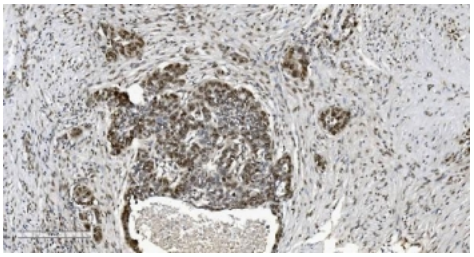
IHC staining of FFPE human lymphoma tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



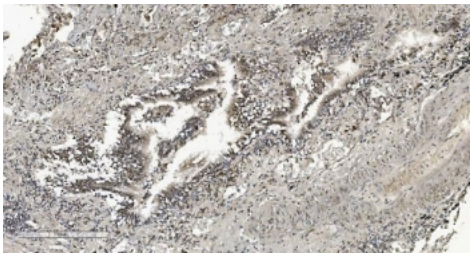
IHC staining of FFPE human breast cancer tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



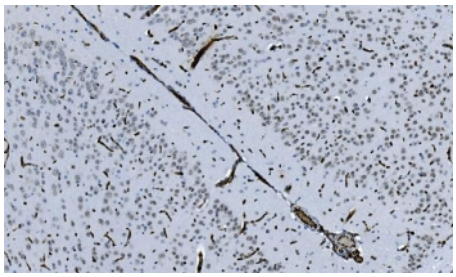
IHC staining of FFPE human gallbladder adenocarcinoma tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



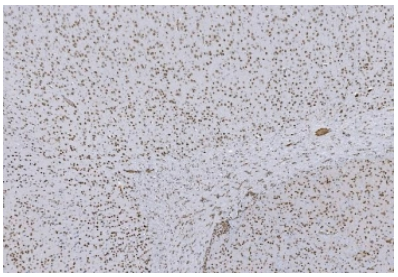
IHC staining of FFPE human ovarian serous adenocarcinoma tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human renal clear cell carcinoma tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse brain tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with CBX5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

This gene encodes the highly conserved nonhistone protein Chromobox protein homolog 5, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified.

Application Notes

Optimal dilution of the CBX5 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-S191) was used as the immunogen for the CBX5 antibody.

Storage

After reconstitution, the CBX5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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