Data Sheet (Cat.No.TMAC-03007)

Anti-p60 CAF1 Antibody (4X99)

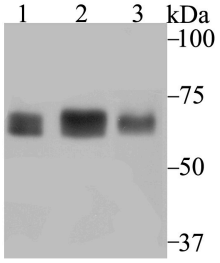
Product Details

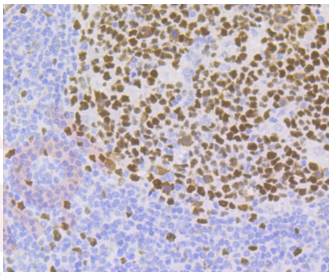
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 61 kDa.
Clone:	4X99
Purification:	ProA affinity purified

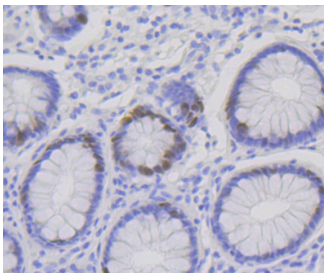
Applications

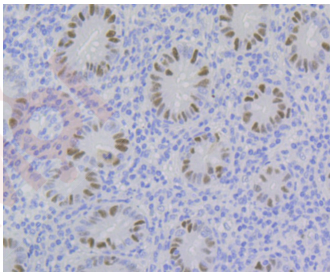
Verified Activity:

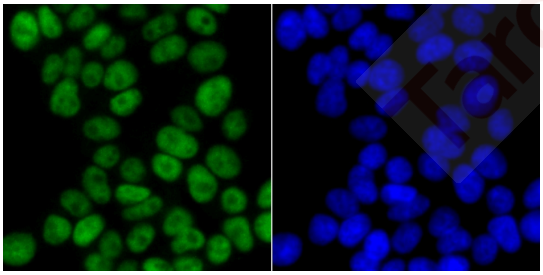
1. Western blot analysis of p60 CAF1 on different cell lysates using anti-p60 CAF1 antibody at 1/1,000 dilution. Positive control: Lane 1: SiHa, Lane 2: K562, Lane 3: A431.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-p60 CAF1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-p60 CAF1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human appendix tissue using anti-p60 CAF1 antibody. Counter stained with hematoxylin.
5. ICC staining p60 CAF1 in 293T cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining p60 CAF1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining p60 CAF1 in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. Flow cytometric analysis of K562 cells with p60 CAF1 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

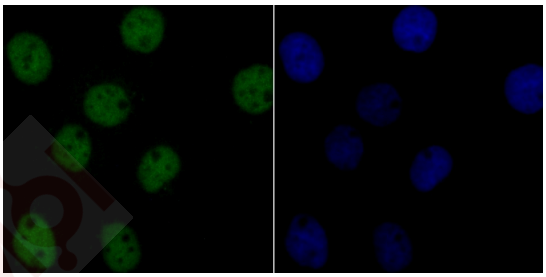


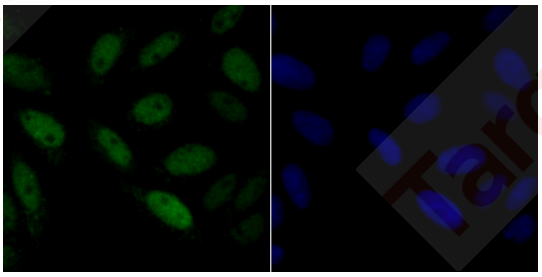


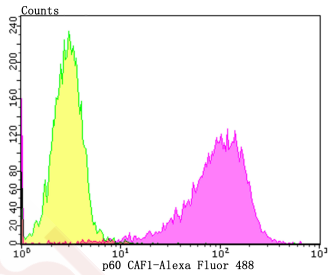












Application: FCM,ICC,IF,IHC,IP,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; ICC:IF: 1:50-200; IP: 1:10-50; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: the C-terminus of Human p60 CAF1
Antigen Species:	human
Uniprot ID:	Q13112
Synonyms:	MPP 7;CAF-I 60 kDa subunit;M phase phosphoprotein 7;CAF1;Human chromatin assembly factor-I p60 subunit;MPHOSPH7;Chromatin assembly factor 1 subunit B;CAF IP60;p60 CAF 1; CHAF1B;CAF1A;CAF 1A;CAF-1;MPP7;Chromatin assembly factor I p60 subunit;CAF1B_HUMAN; CAF-1 subunit B;CAF-I p60;p60 subunit;CAF 1 subunit B;CAF I 60 kDa subunit;CHAF 1B; Chromatin assembly factor I;CAF1P60;M-phase phosphoprotein 7

Research 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 (HP1α, HP1β and HP1γ). 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.

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