Data Sheet (Cat.No.TMAC-00813)

Anti-Cellular Apoptosis Susceptibility Antibody (8O505)

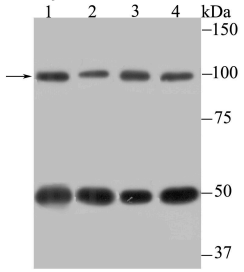
Product Details

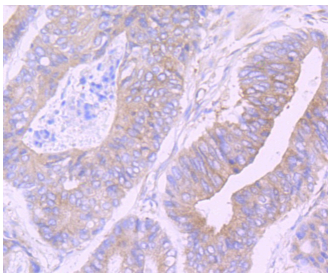
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 110 kDa.
Clone:	8O505
Purification:	ProA affinity purified

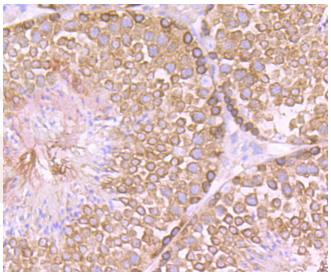
Applications

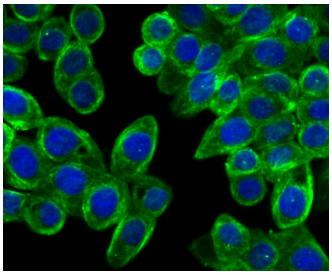
Verified Activity:

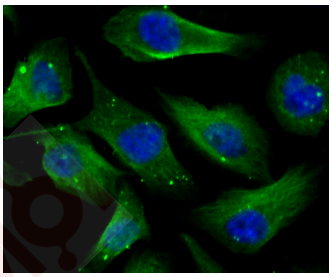
1. Western blot analysis of Cellular Apoptosis Susceptibility on different lysates using anti-Cellular Apoptosis Susceptibility antibody at 1/500 dilution.Positive control: Lane 1: Mouse testis, Lane 2: SiHa, Lane 3: SK-BR-3, Lane 4: PC-3M.
2. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cellular Apoptosis Susceptibility antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Cellular Apoptosis Susceptibility antibody. Counter stained with hematoxylin.
4. ICC staining Cellular Apoptosis Susceptibility in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Cellular Apoptosis Susceptibility in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining Cellular Apoptosis Susceptibility in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. Flow cytometric analysis of LOVO cells with Cellular Apoptosis Susceptibility 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.

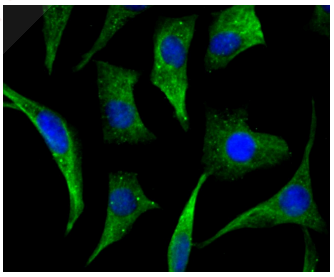


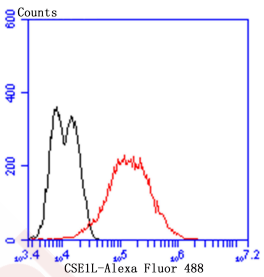












Application: FCM,ICC,IF,IHC,WB

Recommended: WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-200; 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

Uniprot ID: P55060

Synonyms: Chromosome segregation 1 Like;CSE1L;Importin-alpha re-exporter;Cellular apoptosis susceptibility protein;CSE 1;MGC117283;CAS;Exportin2;CSE1 chromosome segregation 1 like protein;Chromosome segregation 1 (yeast homolog) like;Chromosome segregation 1-like protein;XPO2_HUMAN;Exportin-2;MGC130036;Chromosome segregation 1 like protein;Exp2; CSE 1 chromosome segregation 1 like protein;CSE 1L;Exportin 2;MGC130037;XPO2;CSE1 chromosome segregation 1 like;CSE 1 chromosome segregation 1 like;CSE1 chromosome segregation 1 like (yeast);XPO 2;Importin alpha re exporter;CSE1;Exp 2;Chromosome segregation gene CSE1

Research Background

Cellular apoptosis susceptibility protein (CAS), also called Exportin 2, is a 971 amino acid member of the CSE1 family. CAS mediates Importin α re-export from the nucleus to the cytoplasm after import substrates have been released into the nucleoplasm. In the nucleus, CAS binds cooperatively to Importin α and to the GTPase Ran in its GTP-bound (active) form. This complex binds to nucleoporins as it docks to the nuclear pore complex. Once in the cytoplasm, the complex dissociates and Importin α is released and CAS returns to the nuclear compartment and the process begins anew. CAS can be detected highly in proliferating cells. Three isoforms of CAS have been named due to alternative splicing. Isoform 1 is the full length, 971 amino acid protein. Isoform 2 contains an alternative sequence for amino acids 190-195 and is missing amino acids 196-971. Isoform 3 contains an alternative sequence for amino acids 943-945 and is missing amino acids 946-971.