

CDX2 Rabbit mAb

Catalog No: #48729



Package Size: #48729-1 50ul #48729-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

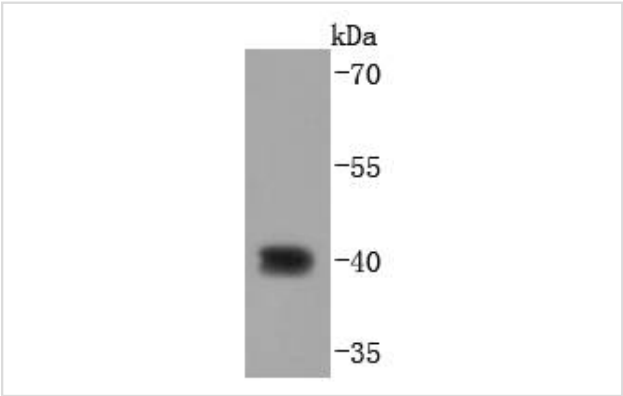
Description

Product Name	CDX2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY09-02
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Rt, Rabbit
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Caudal type homeo box 2 antibody Caudal type homeo box transcription factor 2 antibody Caudal type homeobox 2 antibody Caudal type homeobox protein 2 antibody Caudal type homeobox transcription factor 2 antibody Caudal-type homeobox protein 2 antibody CDX 2 antibody CDX 3 antibody CDX-3 antibody Cdx2 antibody CDX2_HUMAN antibody CDX3 antibody Homeobox protein CDX 2 antibody Homeobox protein CDX-2 antibody
Accession No.	Swiss-Prot#:Q99626
Calculated MW	34 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

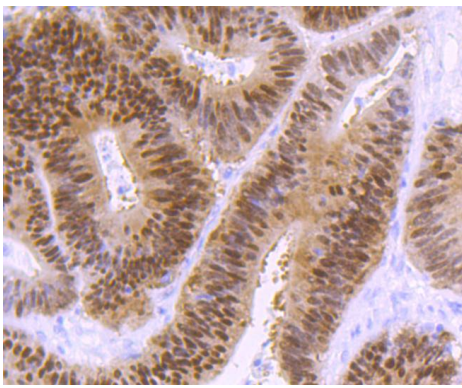
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200IF: 1:200-1:2,000FC: 1:50-1:100

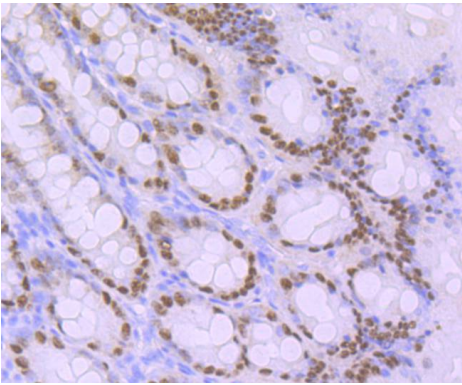
Images



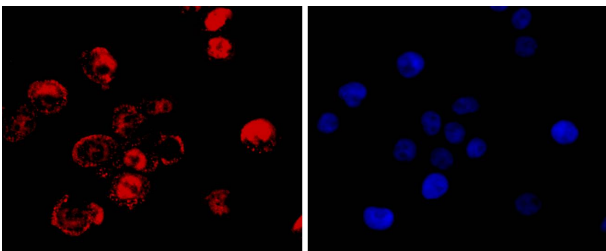
Western blot analysis of CDX2 on AGS cells lysates using anti-CDX2 antibody at 1/1,000 dilution.



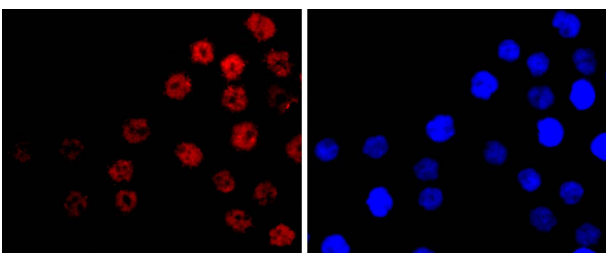
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-CDX2 antibody. Counter stained with hematoxylin.



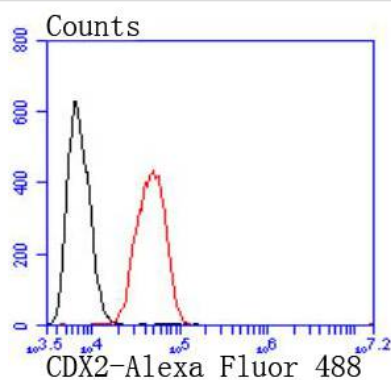
Immunohistochemical analysis of paraffin-embedded rat large intestine tissue using anti-CDX2 antibody. Counter stained with hematoxylin.



ICC staining CDX2 in LOVO cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CDX2 in AGS cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with CDX2 antibody at 1/50 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

The members of the murine Cdx family (Cdx1, Cdx2, and Cdx4) are members of the caudal-type homeobox family of genes, which are homologues of the *Drosophila* 'caudal' gene required for anterior-posterior regional identity. The intestine-specific transcription factors Cdx1 and Cdx2 are candidate genes for directing intestinal development, differentiation, proliferation and maintenance of the intestinal phenotype. The relative expression of Cdx1 to Cdx2 protein may be important in the anterior to posterior patterning of the intestinal epithelium and in defining patterns of proliferation and differentiation along the crypt-villus axis. Cdx1 and Cdx2 are expressed in the small intestine and colon of fetus and adult. A decrease in human Cdx1 and/or Cdx2 expression is associated with colorectal tumorigenesis. Both Cdx1 and Cdx2 genes must be expressed to reduce tumorigenic potential, to increase sensitivity to apoptosis, and to reduce cell migration, suggesting that the two genes control the normal phenotype by independent pathways.

References

1. Yang Y et al. Heightened potency of human pluripotent stem cell lines created by transient BMP4 exposure. *Proc Natl Acad Sci U S A* 112:E2337-46 (2015).
2. Ohinata Y & Tsukiyama T Establishment of trophoblast stem cells under defined culture conditions in mice. *PLoS One* 9:e107308 (2014).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.