



Anti-Human FZD10 Monoclonal Antibody
Product Code: CABh-25330
Clone: 5E12-G8
For Research Use Only (RUO)

Alternate Names	Frizzled-10, Fz-10, Fz10, FzE7, hFz10, cluster of differentiation 350, CD350
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human frizzled class receptor 10 (FZD10), also called Frizzled-10 (Fz-10), Fz10, FzE7, hFz10, or cluster of differentiation 350 (CD350), is a 7-transmembrane G protein-coupled receptor (GPCR). FZD10 is a member of the frizzled gene family, Class F GPCR family. The most frizzled receptors are coupled to the Wnt/beta-catenin canonical signaling pathway. FZD10 is a receptor for Wnt proteins, mediating Wnt-dependent signal transduction. FZD10 is implicated in many types of cancer and is specifically a therapeutic target for colorectal cancer as it is significantly up-regulated in some cases of primary colon cancer. Human FZD10 protein has ~99% and ~93% sequence homology with macaque and mouse FZD10, respectively.

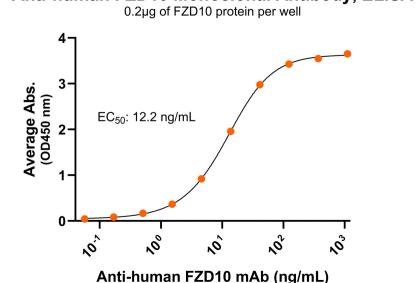
Product Details

Specificity	Detects human frizzled class receptor 10/FZD10 transfectants but not irrelevant transfectants in flow cytometry.
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	FZD10 N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # Q9ULW2
Formulation / Storage buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice
Purification	Affinity Enrichment
Stability & Storage	-80'C
Verified Application	ELISA, Flow cytometry, SPR
Recommended Usage	ELISA: starting concentration 1 µg/mL Flow cytometry: 0.2-0.8 µg/1E6 cells LSPR: Recommended maximum concentration, 100 nM

Bioactive Data, Detection of Antigen by:

ELISA

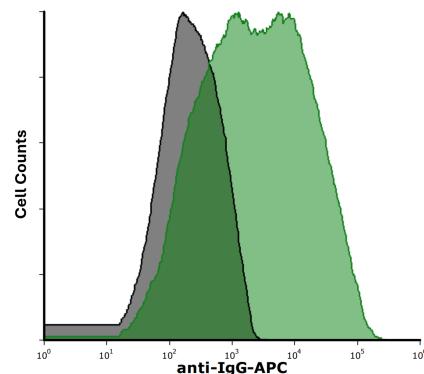
Anti-human FZD10 Monoclonal Antibody, ELISA



Immobilized human FZD10 fragment at 2 μ g/mL (100 μ L/well) can bind Mouse Anti-Human FZD10 Monoclonal Antibody (Cat. No. CABh-25330) with half maximal effective concentration (EC50) range of 6.1-24.4 ng/mL (QC tested).

Flow Cytometry

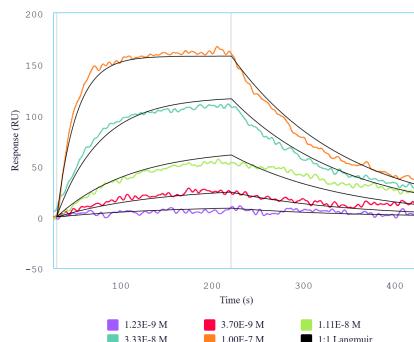
mAb binding FZD10 expressing live cells (Flow Cytometry)



Detection of FZD10 in HEK293 human cell line transiently transfected with human FZD10 by Flow Cytometry. HEK293 cell line transfected with human FZD10 was stained with isotype control (black curve) or Mouse Anti-Human FZD10 Monoclonal Antibody (Cat. No. CABh-25330) (green curve) by APC-conjugated Anti-Mouse IgG Secondary Antibody.

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SPR



Immobilized human FZD10 peptide can bind Mouse Anti-Human FZD10 Monoclonal Antibody (Cat. No. CABh-25330) with a KD of 10.1-40.4 nM as determined by LSPR (Nicoya Alto).

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	Wnt/beta-catenin canonical pathway signaling
Ligand / Receptor	Wnt proteins
Cell Type	Variable expression in most tissues; overexpressed in multiple cancer cells, for example, Synovial sarcoma, colorectal cancer, gastric cancer
Molecular Family	G protein-coupled receptor
Gene ID	Q9ULW2