

Anti-CDH1 Antibody (3Z433)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human, Mouse
Conjugation:	Unconjugated
Clone:	3Z433
Purification:	Affinity-chromatography

Applications

Verified Activity:	<p>1. Western Blot</p> <ul style="list-style-type: none">-Positive WB detected in: Mouse Liver tissue lysate-All lanes: CDH1 antibody at 1:500-Secondary: Goat polyclonal to mouse IgG at 1/50000 dilution-Predicted band size: 80-135 kDa-Observed band size: 135 kDa <p>2. IHC image of TMAH-00246 diluted at 1:200 and staining in paraffin-embedded human endometrial cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-Mouse IgG labeled by HRP and visualized using 0.05% DAB.</p> <p>3. Overlay Peak curve showing MCF7 cells stained with TMAH-00246 (red line) at 1:100. The cells were fixed in 4% formaldehyde (15min) and permeated by 0.2% TritonX-100 for 10min. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10⁶ cells) for 45min at 4°C. The secondary antibody used was FITC-conjugated Goat Anti-Mouse IgG(H+L) at 1/200 dilution for 35 min at 4°C. Isotype control antibody (green line) was mouse IgG1 (1µg/1*10⁶ cells) used under the same conditions. Acquisition of >10,026 events was performed.</p>
Application:	ELISA, WB, IHC, FCM
Recommended	WB:1:1000-1:5000; IHC:1:20-1:200; FCM:1:20-1:200.

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: Human CDH1 Protein
Antigen Species:	Human
Gene ID:	999
Uniprot ID:	P12830
Synonyms:	E-Cadherin;E-cad;Arc-1;cadherin 1, type 1, E-cadherin (epithelial);CDHE;UVO;ECAD;CDH1;LCAM;CD324
Biology Area:	Cancer, Developmental biology, Signal transduction

Research Background

Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. CDH1 is involved in mechanisms regulating cell-cell adhesions, mobility and proliferation of epithelial cells. Has a potent invasive suppressor role. It is a ligand for integrin alpha-E/beta-7. E-Cad/CTF2 promotes non-amyloidogenic degradation of Abeta precursors. Has a strong inhibitory effect on APP C99 and C83 production. (Microbial infection) Serves as a receptor for *Listeria monocytogenes*; internalin A (InIA) binds to this protein and promotes uptake of the bacteria.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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