



Rat anti Mouse CDH1 monoclonal antibody, clone 225514 (CABT-L287)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects mouse E-Cadherin in ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) VE-Cadherin, rmP-Cadherin, recombinant human (rh) Cadherin-17, or rhN-Cadherin is observed.
Target	E-Cadherin
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse E-Cadherin, Asp157-Val709 (predicted), Accession #P09803
Isotype	IgG1
Source/Host	Rat
Species Reactivity	Mouse
Clone	225514
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	ELISA(Cap)
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Format	Lyophilized; Small package size(SP): Liquid
Size	25 µg, 500 µg
Buffer	PBS with Trehalose

Preservative	None
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.
Ship	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

BACKGROUND

Introduction	<p>Epithelial (E)-Cadherin (ECAD), also known as cell-CAM120/80 in the human, uvomorulin in the mouse, Arc-1 in the dog, and L-CAM in the chicken, is a member of the cadherin family of cell adhesion molecules. Cadherins are calcium-dependent transmembrane proteins, which bind to one another in a homophilic manner. On their cytoplasmic side, they associate with the three catenins, alpha, beta, and gamma(plakoglobin). This association links the cadherin protein to the cytoskeleton. Without association with the catenins, the cadherins are non-adhesive. Cadherins play a role in development, specifically in tissue formation. They may also help to maintain tissue architecture in the adult. E-Cadherin may also play a role in tumor development, as loss of E-Cadherin has been associated with tumor invasiveness. E-Cadherin is a classical cadherin molecule. Classical cadherins consist of a large extracellular domain which contains DXD and DxNDN repeats responsible for mediating calcium-dependent adhesion, a single-pass transmembrane domain, and a short carboxy-terminal cytoplasmic domain responsible for interacting with the catenins. E-Cadherin contains five extracellular calcium-binding domains of approximately 110 amino acids each.</p>
Keywords	<p>Arc-1;CAD1;cadherin 1; E-cadherin (epithelial);cadherin 1; type 1; E-cadherin (epithelial);Cadherin-1;calcium-dependent adhesion protein; epithelial;CAM 120/80;CD324 antigen;CD324;CDH1;CDHE;cell-CAM 120/80;Cell-CAM120/80;ECAD;ECadherin;E-Cadherin;Epithelial cadherin;LCAM;L-CAM;UVOE-Cadherin;Uvomorulin</p>

GENE INFORMATION

Entrez Gene ID	12550
UniProt ID	P09803