

Ver.1 Date : 20180222

Epithelial-Mesenchymal Transition (EMT) Antibody Sampler Kit

Cat# AK0152

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Epithelial-mesenchymal transition (EMT) is an essential process during development whereby epithelial cells aquire mesenchymal, fibroblast-like properties and display reduced intracellular adhesion and increased motility. This is a critical feature of normal embryonic development, which is also utilized by malignant epithelial tumors to spread beyond their origin. This tightly regulated process is associated with a number of cellular and molecular events. EMT depends on a reduction in expression of cell adhesion molecules. Cadherins mediate calcium-dependent cell-cell adhesion and play critical roles in normal tissue development. E-cadherin is considered an active suppressor of invasion and growth of many epithelial cancers. Recent studies indicate that cancer cells have up-regulated N-cadherin in addition to loss of E-cadherin. This change in cadherin expression is called the "cadherin switch" and downregulation of E-cadherin is one of the hallmarks of EMT. Tight junctions, or zonula occludens, form a continuous barrier to fluids across the epithelium and endothelium. They function in regulation of paracellular permeability and in the maintenance of cell polarity, blocking the movement of transmembrane proteins between the apical and the basolateral cell surfaces. Tight junctions are composed of claudin and occludin proteins, which join the junctions to the cytoskeleton. Zona occludens proteins ZO-1, 2, and 3 (also known as TJP 1, 2, and 3) are peripheral membrane adaptor proteins that link junctional transmembrane proteins such as occludin and claudin to the actin cytoskeleton. ZO-1 and -2 are required for tight junction formation and function; mutations in ZO-1 and Claudin induce EMT. Vimentin is an intermediate filament of mesenchymal origin and is present at early developmental stages. Vimentin's dynamic structural changes and spatial re-organization in response to extracellular stimuli helps to coordinate various signaling pathways. β -catenin is a key downstream effector in the Wnt signaling pathway. It is

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340700	Vimentin Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Human	Rabbit
A340502	E-Cadherin Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Human	Rabbit
A340602	N-Cadherin Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Human,	Rabbit
				Mouse, Rat	
A340484	Claudin 1 Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Human,	Rabbit
				Mouse, Rat	



A340470	Catanin hata Daluclanal Antihadu	201		Human,	Rabbit
A340470	Catenin beta Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Mouse, Rat	Rabbit
				Human,	
A340676	SNAI1 Polyclonal Antibody	20µL	WB, IHC, IF, ELISA	Mouse,	Rabbit
				Monkey	
A1013s	Goat Anti-Rabbit IgG (H+L)	1201	WB, ELISA	Rabbit	Goat
	(peroxidase/HRP conjugated)	120µL			

PRODUCT USE LIMITATION

These products are intended for research use only.

