Abk003 **[Primary Antibody]**

EMT Research Antibody Assembly kit (E-Cadherin,N-Cadherin,Vimentin,Occludin,ZO-1)

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: EMT Research Antibody Assembly kit (E-Cadherin,N-Cadherin,Vimentin,Occludin,ZO-1)

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Epithelial-mesenchymal transition (EMT) is a biological process that allows epithelial cell to assume mesenchymal phenotype. EMT and its reverse process, mesenchymal-epithelial transition (MET), are originally defined in the context of developmental stages and re-engaged in adults during wound healing, tissue regeneration, organ fibrosis, and cancer progression. Epithelial cells normally interacts with basement membrane via its basal surface. During EMT, they lose their cell polarity and cell-cell adhesion, and gain mesenchymal cell phenotype, including enhanced migratory capacity, invasiveness, elevated resistance to apoptosis, stem-like features, and increased production of ECM components. Accordingly, there is reprogrammed gene expression with EMT. Especially, some cytoskeleton proteins (such as cadherin family members), tight-junction proteins (such as Occludin and ZO-1) and intermediate filament of mesenchymal origin (such as Vimentin) undergo significant changes and serve as best EMT markers to evaluate EMT.

EMT Research Antibody Assembly kit is one economical package of selected antibodies for most representative EMT markers, including E-Cadherin, N-Cadherin, Vimentin, Occludin, and ZO-1. These antibodies have been tested in a variety of applications and species. For specific application information of different antibodies, please refer to each individual antibody datasheet.

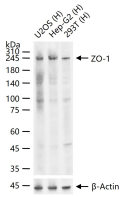
EMT Research Antibody Assembly kit
E cadherin Recombinant Rabbit mAb(bsm-60814R)
N Cadherin Recombinant Rabbit mAb(bsm-52389R)
Vimentin Rabbit pAb(bs-8533R)
Occludin Recombinant Rabbit mAb(bsm-61062R)
ZO-1 Mouse mAb(bsm-41327M)

Applications: **WB** (1:500-2000)

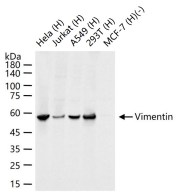
Reactivity: Human

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with ZO-1 monoclonal antibody, unconjugated (bsm-41327M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



25 ug total protein per lane of various lysates (see on figure) probed with Vimentin polyclonal antibody, unconjugated (bs-8533R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

SELECTED CITATIONS

- **[IF=8.5]** Liu-Lu Gao. et al. Acteoside suppresses hepatocellular carcinoma progression via modulation of macrophage migration inhibitory factor and mitogen-activated protein kinase proteins. INT J BIOL MACROMOL. 2025 Jun;:145579 WB ;Human. 40582652