

Basic Information

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| Product Name | Anti-ZO-1/TJP1 Antibody (Clone#3E12) | |
| Gene Name | TJP1 | |
| Source | Mouse | |
| Isotype | IgG1 | |
| Species Reactivity | human | |
| Tested Application | WB, IHC, ICC/IF, FCM | |
| Contents | 200ug/ml antibody with PBS , 0.02% NaN ₃ , 1mg BSA and 50% glycerol. | |
| Immunogen | E.coli-derived human TJP1 recombinant protein (Position: H1178-F1527). Human TJP1 shares 82% amino acid (aa) sequence identity with mouse TJP1. | |
| concentration | 200ug/ml | |
| Purification | protein G purified. | |
| Observed MW | 220KD | |
| Dilution Ratios | Western blot (WB): Immunohistochemistry in paraffin section (IHC): Immunocytochemistry/Immunofluorescence (ICC/IF): Flow cytometry (FCM): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. | 1:500-2000 1:50-400 1:50-400 1-3 µg/1x10 ⁶ cells |

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Tight junction protein ZO-1 is a protein that in humans is encoded by the TJP1 gene. It is mapped to 15q13.1. This gene encodes a protein located on a cytoplasmic membrane surface of intercellular tight junctions. The encoded protein may be involved in signal transduction at cell-cell junctions. It has been found that injected CagA associates with the epithelial tight-junction scaffolding protein TJP1 and the transmembrane protein junctional adhesion molecule, causing an ectopic assembly of tight junction components at sites of bacterial attachment, and altering the composition and function of the apical-junctional complex.

Reference

Anti-ZO-1/TJP1 Antibody (Clone#3E12)被引用在1文献中。

Selected Validation Data

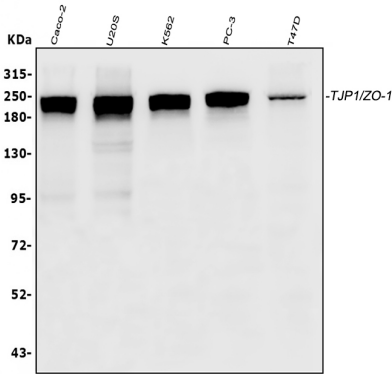


Figure 1. Western blot analysis of anti- TJP1 antibody (M00860).The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human Caco-2 whole cell lysates,
Lane 2: human U2OS whole cell lysates,
Lane 3: human K562 whole cell lysates,
Lane 4: human PC-3 whole cell lysates,
Lane 5: human T47D whole cell lysates.

Use mouse anti- TJP1 1:1000, probed with a goat anti- mouse IgG- HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001). A specific band was detected for TJP1 at approximately 220KD. The expected band size for TJP1 is at 195KD.

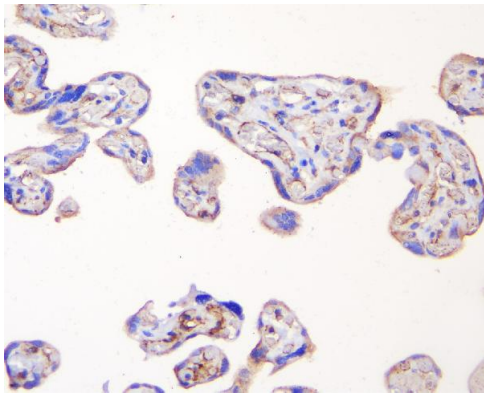


Figure 2. IHC analysis of anti- TJP1 antibody (M00860).detected in paraffin-embedded section of human placenta cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB as the chromogen.

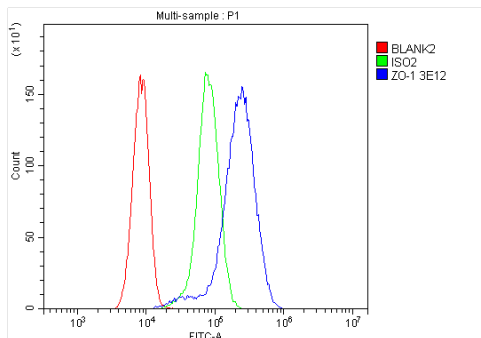


Figure 4.Flow cytometry analysis of HELA cell(1x10⁶) DyLight 488 conjugated goat anti-mouse IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was mouse IgG DyLight 488. Unlabelled sample (Red line).

Product datasheet

**Anti-ZO-1/TJP1 Antibody
(Clone#3E12)**

Catalog Number: M00860

BOSTER

antibody and ELISA experts

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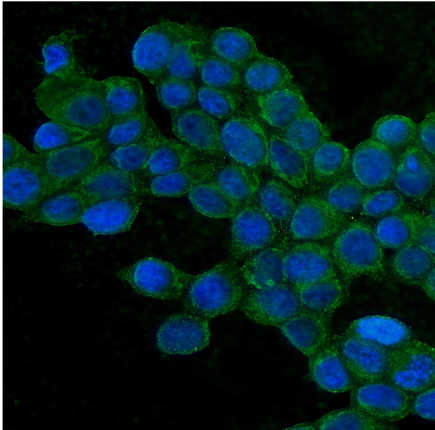


Figure 5. ICC analysis using anti-TJP1 antibody (M00860) was detected in immersion fixed MCF-7 cell line. Cells were stained using the Dylight488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog # BA1127) and counterstained with DAPI (blue).