

Anti-intestinal alkaline phosphatase Antibody [JE60-27]

HA722461



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 57 kDa
Clone number:	JE60-27

Description: There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The intestinal alkaline phosphatase gene encodes a digestive brush-border enzyme. This enzyme is a component of the gut mucosal defense system and is thought to function in the detoxification of lipopolysaccharide, and in the prevention of bacterial translocation in the gut. Alkaline phosphatase that can hydrolyze various phosphate compounds. In most mammals there are four different isozymes: placental (ALPP), germ cell (ALPG), intestinal (ALPI) and tissue non-specific (liver/bone/kidney) (ALPL/TNAP).

Immunogen: Recombinant protein within Human intestinal alkaline phosphatase aa 1-100 / 528.

Positive control: Caco-2 cell lysate, SW480 cell lysate, human small intestine tissue, human placenta tissue.

Subcellular location: Cell membrane.

Database links: SwissProt: P09923 Human

Recommended Dilutions:

WB	1:1,000
IHC-P	1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

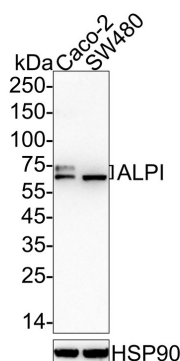


Fig1: Western blot analysis of intestinal alkaline phosphatase on different lysates with Rabbit anti-intestinal alkaline phosphatase antibody (HA722461) at 1/1,000 dilution.

Lane 1: Caco-2 cell lysate

Lane 2: SW480 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 57 kDa

Observed band size: 70-75 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722461) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

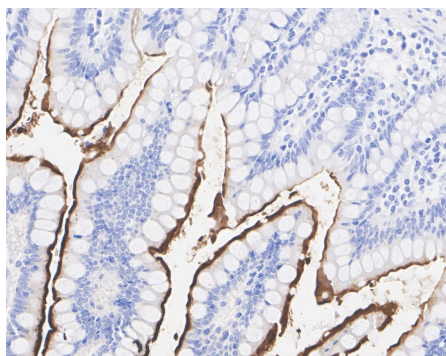


Fig2: Immunohistochemical analysis of paraffin-embedded human small intestine tissue with Rabbit anti-intestinal alkaline phosphatase antibody (HA722461) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722461) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

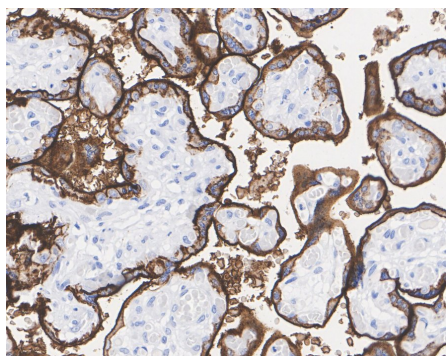


Fig3: Immunohistochemical analysis of paraffin-embedded human placenta tissue with Rabbit anti-intestinal alkaline phosphatase antibody (HA722461) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA722461) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Malo J., Alam M.J., Shahnaz M., Kaliannan K., Chandra G., Aziz T., Sarker T., Bala M., Paul R., Malo M.S. Intestinal Alkaline Phosphatase Deficiency Is Associated with Ischemic Heart Disease. *Dis Markers* 2019:8473565-8473565 (2019)
2. Liu W., Hu D., Huo H., Zhang W., Adiliaghdam F., Morrison S., Ramirez J.M., Gul S.S., Hamarneh S.R., Hodin R.A. Intestinal Alkaline Phosphatase Regulates Tight Junction Protein Levels. *J Am Coll Surg* 222:1009-1017 (2016)

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