Anti-intestinal alkaline phosphatase Antibody [PSH17-83] - BSA and Azide free

HA751642

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	IHC-P
Molecular Wt:	Predicted band size: 57 kDa
Clone number:	PSH17-83

Description: Alkaline phosphatase, intestinal, also known as ALPI, is a type of alkaline phosphatase that in humans is encoded by the ALPI gene. Intestinal alkaline phosphatase is an endogenous enzyme that maintains gut homeostasis. It detoxifyies bacterial toxins, dephosphorylates phosphorylated nucleotides, regulates lipid absorption in the intestine, and regulates the microbiome in the intestine. In addition to these functions, intestinal alkaline phosphatase can also modulate bicarbonate secretion and can modulate the pH of the duodenum.

Immunogen: Recombinant protein within human ALPI aa 1-503.

Positive control: Human small intestine tissue, human placenta tissue, mouse small intestine tissue, rat small intestine tissue.

Subcellular location: Cell membrane.

Database links: SwissProt: P09923 Human | P24822 Mouse | P15693 Rat

Recommended Dilutions:

IHC-P	1:1,000-1:30,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

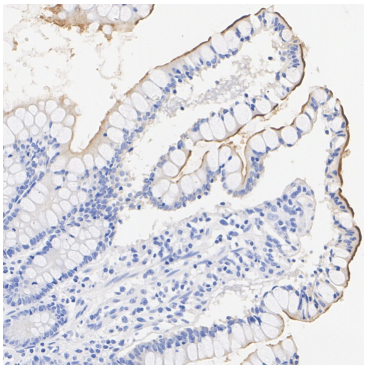

Fig1: Immunohistochemical analysis of paraffin-embedded human small intestine tissue with Rabbit anti-intestinal alkaline phosphatase antibody (HA751642) at 1/20,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA751642) at 1/20,000 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.

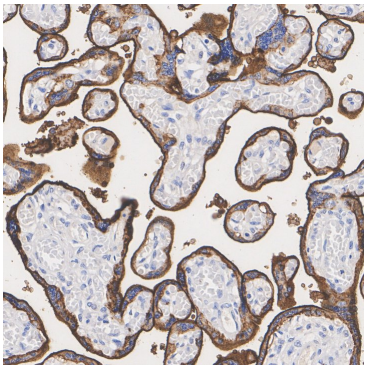

Fig2: Immunohistochemical analysis of paraffin-embedded human placenta tissue with Rabbit anti-intestinal alkaline phosphatase antibody (HA751642) at 1/1,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA751642) 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.

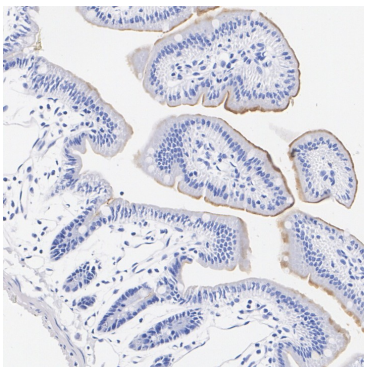

Fig3: Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue with Rabbit anti-intestinal alkaline phosphatase antibody (HA751642) at 1/30,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA751642) at 1/30,000 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.

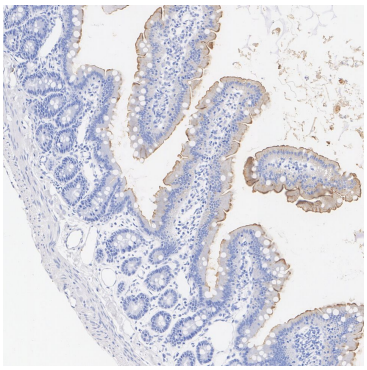

Fig4: Immunohistochemical analysis of paraffin-embedded rat small intestine tissue with Rabbit anti-intestinal alkaline phosphatase antibody (HA751642) at 1/30,000 dilution.

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 ddH_2O and PBS, and then probed with the primary antibody (HA751642) at 1/30,000 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.

Background References

1. Santos GM et al. Intestinal Alkaline Phosphatase: A Review of This Enzyme Role in the Intestinal Barrier Function. Microorganisms. 2022 Mar
2. Singh SB et al. Role of Intestinal Alkaline Phosphatase in Innate Immunity. Biomolecules. 2021 Nov