

Rabbit Anti-PLAP [EP194]: RM0161, RM0161RTU7

Intended Use: For Research Use Only

Description: Alkaline phosphatases (ALP) are dimeric enzymes by glycosylphosphatidylinositol anchors to the cell membrane. There are at least four distinct but related isozymes: placenta ALP (PLAP), germ cell ALP (PLAP-like or GCAP), intestinal ALP (IAP) and non-specific tissue ALP (TNAP). These isozymes may serve to guide migratory cells, to transport specific molecules such as fat and immunoglobulins across membranes or to detoxify lipopolysaccharide and prevent bacterial invasion across the gut mucosal barrier. This antibody specifically recognizes PLAP and GCAP. PLAP is expressed in the human placenta beginning late in the first trimester of pregnancy. GCAP is expressed in normal endocervix and fallopian tube. Ectopic expression of GCAP is associated with germ cell tumors: intratubular germ cell neoplasia, unclassified (IGCNU), seminoma, embryonal carcinoma and choriocarcinoma. PLAP has been used as a marker for germ cell tumor. Clinically, it is useful for the identification of primary intracranial germinoma.

Specifications:

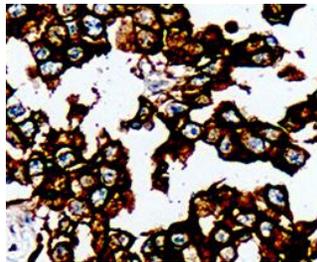
Clone: EP194
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Membrane
 Formulation: Purified antibody in PBS pH7.4, containing BSA and < 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
PLAP Concentrated	RM0161	1 ml
PLAP Prediluted	RM0161RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Seminoma, placenta
 Concentrated Dilution: 50-200
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human seminoma stained with anti-PLAP-like using DAB

References:

1. Hepcidin promotes osteogenic differentiation through the bone morphogenetic protein 2/small mothers against decapentaplegic and mitogen-activated protein kinase/P38 signaling pathways in mesenchymal stem cells. Lu H, et al. Mol Med Rep 11:143-50, 2015.
2. Expression levels of seprase/FAPa and DPPIV/CD26 in epithelial ovarian carcinoma. Zhang M, et al. Oncol Lett 10:34-42, 2015. Human.
3. Low-dose X-ray irradiation promotes osteoblast proliferation, differentiation and fracture healing. Chen M, et al. PLoS One 9:e104016, 2014.

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Rev. A