

**Rabbit Anti-PLAP [SP15]: RM0263, RM0263RTU7**

**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:**

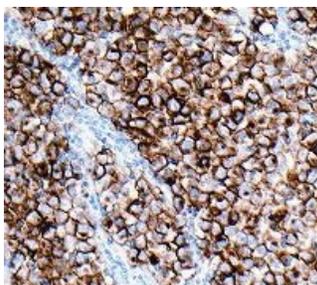
Clone: SP15  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human, mouse  
 Localization: Membrane  
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, WB  
 Package:

Description	Catalog No.	Size
PLAP Concentrated	RM0263	1 ml
PLAP Prediluted	RM0263RTU7	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 using DAB

**References:**

1. Induction and persistence of abnormal testicular germ cells following gestational exposure to di-(n-butyl) phthalate in p53-null mice. Saffarini CM, et al. J Androl 33:505-13, 2012.
2. Nicotinic Acid Adenine Dinucleotide Phosphate (NAADP) Degradation by Alkaline Phosphatase. Schmid F, et al. J Biol Chem 287:32525-34, 2012.
3. 17beta-estradiol accelerates tumor onset and decreases survival in a transgenic mouse model of ovarian cancer. Laviolette LA, et al. Endocrinology 151:929-38, 2010.

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Rev. A