

Anti-ALPP/ALPG/ALPI Polyclonal Antibody

Cat: K108942P

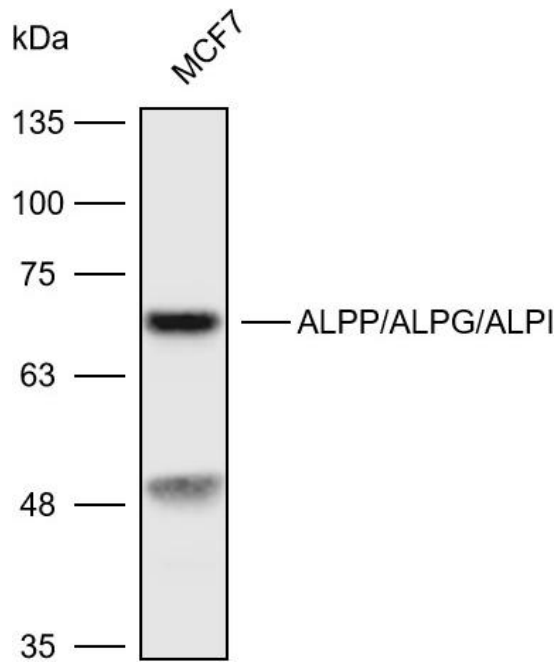
Summary:

【Product name】 : Anti-ALPP/ALPG/ALPI antibody	【Source】 : Rabbit
【Isotype】 : IgG	【Species reactivity】 : Human Mouse
【Swiss Prot】 : P05187/P10696/P09923	【Gene ID】 : 250/251/248
【Calculated】 : MW:57/58kDa	【Observed】 : MW:68kDa
【Purification】 : Affinity purification	
【Tested applications】 : WB IHC	
【Recommended dilution】 : WB 1:2000-5000. IHC 1:50-200..	
【WB Positive sample】 : MCF7	
【IHC Positive sample】 : Human testis cancer	
【Subcellular location】 : Cytoplasm	
【Immunogen】 : A synthetic peptide of Human ALPP/ALPG/ALPI	
【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C	

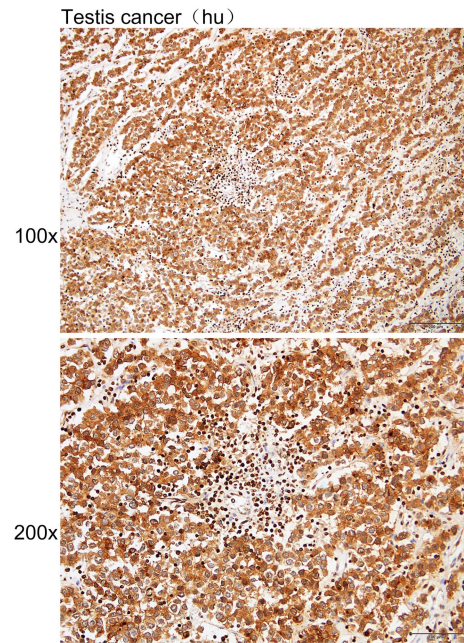
Background:

ALPP (Alkaline phosphatase placental type; also SEAP, PALP-1 and ALP) is a 66-68 kDa glycoprotein member of the alkaline phosphatase family of molecules. It is principally expressed by 2nd and 3rd trimester syncytiotrophoblasts and tumor cells, and represents one of four alkaline phosphatase isozymes. Experimentally, it cleaves phosphate monoesters into alcohol and phosphate. Human ALPP is synthesized as a 535 amino acid (aa) preproprecursor. It contains a 22 aa signal sequence, a 484 mature region (aa 23-506), and a 29 aa C-terminal propeptide that is cleaved to generate a GPI linkage at Asp506. The ALPP gene is highly allelic and may generate three potential splice variants that involve the signal sequence. The ALPP enzyme utilizes one Mg and two Zn ions, and functions as either a homodimer, or a heterodimer with the related Intestinal (ALPI) and Germ cell (GCAP) family members on the cell surface. ALPP is reported to oligomerize under certain conditions. Over aa 23-506, human ALPP shares 96% and 77% aa identity with chimpanzee ALPP and mouse embryonic-type alkaline phosphatase, respectively. It also shares 88% and 98% aa identity with IAP and GCAP, respectively. Over aa 23-506, human ALPP shares 86% aa identity with human ALPI.

Verified picture



Western blot analysis with ALPP/ALPG/ALPI antibody diluted at 1:4000; Lane: MCF7



Immunohistochemistry of paraffin-embedded Human testis cancer with ALPP/ALPG/ALPI antibody diluted at 1:80