

Datasheet

ALPL monoclonal antibody (M02), clone 3A7

Catalog Number: H00000249-M02

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant ALPL.

Clone Name: 3A7

Immunogen: ALPL (AAH21289, 91 a.a. ~ 200 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

WRDQAQETLKYALELQKLNTNVAKNVIMFLGDGMGVS
TVTAARILKGQLHHNPGEETRLEMDKFPFVALSKTYNT
NAQVPDSAGTATAYLCGVKANEGTVGVSAATERSR

Host: Mouse

Reactivity: Human

Applications: ELISA, WB-Re

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG1 Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 249

Gene Symbol: ALPL

Gene Alias: AP-TNAP, FLJ40094, FLJ93059, HOPS, MGC161443, MGC167935, TNAP, TNSALP

Gene Summary: There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue

non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. The exact physiological function of the alkaline phosphatases is not known. A proposed function of this form of the enzyme is matrix mineralization; however, mice that lack a functional form of this enzyme show normal skeletal development. This enzyme has been linked directly to hypophosphatasia, a disorder that is characterized by hypercalcemia and includes skeletal defects. The character of this disorder can vary, however, depending on the specific mutation since this determines age of onset and severity of symptoms. Alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq]