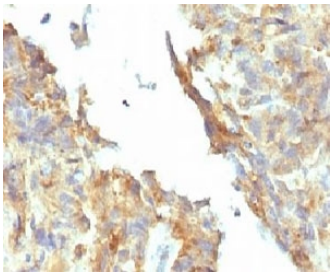
Alkaline Phosphatase Antibody / ALPL [clone KSUL-1] (V3403)

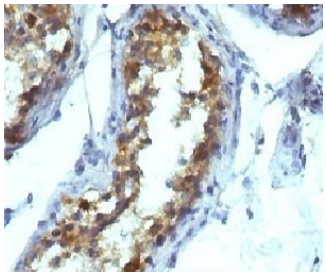
Catalog No.	Formulation	Size
V3403-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3403-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3403SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3403IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KSUL-1
Purity	Protein G affinity chromatography
UniProt	P09923
Localization	Cell surface, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This Alkaline Phosphatase antibody is available for research use only.



Alkaline Phosphatase Antibody Ovarian Carcinoma IHC. Immunohistochemistry testing of FFPE ovarian carcinoma and Alkaline Phosphatase antibody (KSUL-1). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



Alkaline Phosphatase Antibody Testicular Carcinoma IHC. Immunohistochemistry testing of FFPE testicular carcinoma and Alkaline Phosphatase antibody (KSUL-1). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.

Description

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 hypo-phosphatasia, 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.

For a clone-defined immunohistochemistry-focused ALPL reagent with extensive tumor tissue staining data, see our Alkaline Phosphatase Tissue Non Specific Antibody page featuring clone ALPL/597.

Application Notes

Optimal dilution of the Alkaline Phosphatase antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human ALPL protein was used as the immunogen for the tissue-nonspecific Alkaline Phosphatase antibody.

Storage

Store the Alkaline Phosphatase antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).