

R1059**Polyclonal Antibody to L-asparaginase 1 - Serum**

Alternate names:	L-ASNase I, L-asparaginase I, L-asparagine amidohydrolase I, ansA
Quantity:	2 ml
Concentration:	65.0 mg/ml (by refractometry)
Background:	<p>Asparaginase is an enzyme purified from <i>E. coli</i> and <i>Erwinia carotovora</i>. It acts by deaminating extracellular L asparagine, an amino acid that appears to be essential for protein synthesis by some tumour cells which are unable to synthesise asparagine. Asparaginase from <i>Erwinia carotovora</i> is serologically and biochemically distinct from asparaginase from <i>E. coli</i>, although its antineoplastic activity and toxicity is similar. Asparaginase is usually considered to be cell cycle phase nonspecific, but it may block some cells in G1 or S phase. Asparaginase reduces cellular and humoral immunity.</p> <p><i>E. coli</i> contains two L asparaginase isoenzymes: L asparaginase I, a low affinity enzyme located in the cytoplasm, and L asparaginase II, a high affinity secreted enzyme.</p>
Uniprot ID:	P00805
NCBI:	AP_003514.1
GeneID:	947454
Host:	Rabbit
Immunogen:	Asparaginase from <i>E. coli</i> Genename: ansB
Format:	State: Lyophilized antiserum Purification: Prepared from monospecific antiserum by delipidation and defibrination Buffer System: 0.02M Potassium phosphate, 0.15M Sodium Chloride, pH 7.2 Preservatives: None Stabilizers: None Reconstitution: Restore with 2.0 ml of deionized water or equivalent.
Applications:	Suitable for Immunoblotting (Western or Dot blot), ELISA, Immunohistochemistry, Immunoprecipitation and most immunological methods requiring high titer and specificity. <u><i>Recommended Dilutions</i></u> ELISA: 1/20,000-1/100,000. Western Blot: 1/2,000-1/10,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Asparaginase [<i>E. coli</i>]. Cross reactivity against Asparaginase from other tissues and species may occur but have not been specifically determined.

Storage: Store vial at 2-8°C prior to restoration.
 Centrifuge product if not completely clear after standing at room temperature.
 This product is stable for one month at 2-8°C as an undiluted liquid.
 For extended storage aliquot contents and freeze at -20°C or below.
 Avoid repeated freezing and thawing.
 Dilute only prior to immediate use.
 Shelf life: one year from despatch.

Pictures: Western Blot of Rabbit anti-L-Asparaginase Antibody.
Lane 1: L-Asparaginase. **Lane 2:** none.
Load: 100 ng per lane. **Primary antibody:** L-Asparaginase antibody at 1/1000 for overnight at 4°C. **Secondary antibody:** DyLight™ 649 Rabbit secondary antibody at 1/20,000 for 30 min at RT.
Block: MB-070 for 30 min at RT.
Predicted/Observed size: 32 kDa for L-Asparaginase. Other band(s): L-Asparaginase splice variants and isoforms.

