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## anti-CPS1 antibody



Image



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#### Overview

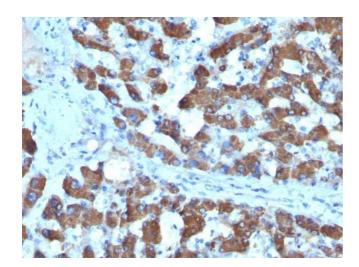
Quantity:	100 μg
Target:	CPS1
Reactivity:	Human, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CPS1 antibody is un-conjugated
Application:	Immunofluorescence (IF), Immunohistochemistry (IHC), Staining Methods (StM)

### **Product Details**

Immunogen:	Recombinant human CPS1 protein
Clone:	SPM615
Isotype:	lgG1 kappa
Specificity:	This MAb recognizes a protein of 165 kDa, identified as carbamoyl phosphate synthetase 1
	(CPS1). This mitochondrial enzyme catalyzes synthesis of carbamoyl phosphate from
	ammonia and bicarbonate. This reaction is the first committed step of the urea cycle, which is
	important in the removal of excess urea from cells. Deficiency of CPS1 is an autosomal
	recessive disorder that causes hyperammonemia. CPS1 is a hepatocyte specific protein that
	localizes to the mitochondria of hepatocytes. It is a sensitive marker for distinguishing
	hepatocellular carcinomas (HCC) from other metastatic carcinomas as well as cholangio-
	carcinomas. HCC's occur primarily in the stomach, but they are also found in many other
	organs. CPS1 may also be a useful marker for intestinal metaplasia. Reportedly, strong
	expression of CPS1 correlates with smaller tumor size and longer patient survival. Occasionally,

### **Product Details**

	CPS1 is also found in gastric carcinomas as well as in a few other non-hepatic tumors.
Purification:	Purified by Protein A/G
Target Details	
Target:	CPS1
Alternative Name:	CPS1 (CPS1 Products)
Molecular Weight:	~165kDa
Gene ID:	1373
UniProt:	P31327
Pathways:	Response to Growth Hormone Stimulus, Cellular Glucan Metabolic Process
Application Details	
Application Notes:	Positive Control: HeLa cells. Liver or Hepatocellular Carcinoma (HCC).
	Known Application: Immunofluorescence (0.5-1.0 µg/mL), Immunohistochemistry (Formalin-
	fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue
	sections in 1 mM EDTA, pH 7.5-8.5, for 10-20 min followed by cooling at RT for
	20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only
Handling	
Concentration:	200 μg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody
	is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months



### **Immunohistochemistry**

**Image 1.** Formalin-fixed, paraffin-embedded human Hepatocellular Ca stained with CPS1 Monoclonal Antibody (SPM615).