

**Rabbit Anti-HAI-1/SPINT1 [EPR23294-49]: RM0241**

**Intended Use:** For Research Use Only

**Description:** Hepatocyte growth factor activator inhibitor type 1 (HAI-1) is a membrane-associated Serine peptidase inhibitor Kunitz type 1 (SPINT1) that belongs to the Kunitz family. Human HAI-1 transcript is expressed in various human tissues, such as adult placenta, kidney, pancreas, prostate and small intestine, and fetal kidney and lung. HAI-1 restricts the cancer metastasis by inhibiting the HGF activity. The interaction between SPINT1 and CTB may contribute in the villous differentiation and maintenance of the villous tree. It has been reported that HAI-1 also retards the activity of various pro-metastatic serine proteases associated with tumor spreading.

**Specifications**

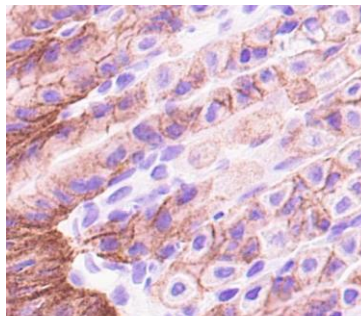
Clone:	EPR23294-49
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse, rat
Immunogen:	Recombinant protein of HAI-1
Localization:	Secreted
Formulation:	Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN <sub>3</sub> )
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., ICC/IF, IP, WB
Package:	

Description	Catalog No.	Size
HAI-1/SPINT1 Concentrated	RM0241	1 ml

**IHC Procedure\***

Positive Control Tissue:	Testis, stomach
Concentrated Dilution:	25-100
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE mouse stomach stained with anti-HAI-1 using DAB

**References:**

1. HAI-1 is an independent predictor of lung cancer mortality and is required for M1 macrophage polarization. Borowicz S, et al. PLoS One 16:e0252197, 2021.
2. Novel Role for  $\gamma$ -Catenin in the Regulation of Cancer Cell Migration via the Induction of Hepatocyte Growth Factor Activator Inhibitor Type 1 (HAI-1). Marybeth Sechler, et al., J Biol Chem. Jun 19;290(25):15610-15620, 2015.
3. Hepatocyte Growth Factor Activator Inhibitor Type 1 (HAI-1) Is Required for Branching Morphogenesis in the Chorioallantoic Placenta. Hiroyuki Tanaka, et al., Mol Cell Biol. Jul; 25(13): 5687–5698, 2005.