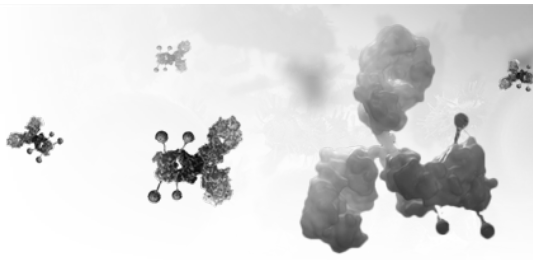

Mouse anti-Human ESPL1 monoclonal antibody, clone 7I7 (CABT-B10206)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	ESPL1 (NP_036423, 586 a.a. ~802a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	7I7
Conjugate	Unconjugated
Applications	WB, IHC, ELISA
Sequence Similarities	REELQAYKAVRADTGQERFNIICDLLELSPEETPAGAWARATHLVELAQVLCYHDFTQQT NCSALDAIREALQLLDSVRPEAQARDQLLDDKAQALLWLYICTLEAKIQEGIERDR
Format	Liquid
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	Stable cohesion between sister chromatids before anaphase and their timely separation during anaphase are critical for chromosome inheritance. In vertebrates, sister chromatid cohesion is released in 2 steps via distinct mechanisms. The first step involves phosphorylation of STAG1

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	(MIM 604358) or STAG2 (MIM 300826) in the cohesin complex. The second step involves cleavage of the cohesin subunit SCC1 (RAD21; MIM 606462) by ESPL1, or separase, which initiates the final separation of sister chromatids (Sun et al., 2009 [PubMed 19345191]).[supplied by OMIM, Nov 2010]
Keywords	ESPL1; extra spindle pole bodies homolog 1 (S. cerevisiae); ESP1; SEPA; separin; caspase-like protein ESPL1; extra spindle poles like 1; separin, cysteine protease; extra spindle poles-like 1 protein;

GENE INFORMATION

Entrez Gene ID	9700
UniProt ID	Q14674
Pathway	Cell cycle, organism-specific biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Oocyte meiosis, organism-specific biosystem; Oocyte meiosis, conserved biosystem;
Function	catalytic activity; cysteine-type peptidase activity; peptidase activity; protein binding;

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