



Rat Anti-iSEC1 monoclonal antibody, clone HU53 (CABT-RM147)

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

PRODUCT INFORMATION

Specificity	Specifically detects murine iSEC1 (intestinal secretory cell protein 1), but not the iSEC2.
Target	iSEC1
Immunogen	iSEC1-expressing NIH/3T3 cells.
Isotype	IgG1, κ
Source/Host	Rat
Species Reactivity	Mouse, Rat
Clone	HU53
Purification	Protein G purified
Conjugate	unconjugated
Applications	FC, ICC
Molecular Weight	34.68 kDa calculated.
Format	Liquid
Size	100 µg
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide
Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction

iSEC1 protein, intestinal secretory cell protein 1 is encoded by the Gm609 gene in murine species. iSEC1 is a D200 homologue that is expressed mainly in the small intestine, but some expression is observed in the stomach, duodenum, jejunum, ileum, cecum, and colon. It is not detected in esophagus or other tissues. It can bind to CD200R, but not to other members of the CD200R family. Binding of iSEC1 to CD200R on intraepithelial lymphocytes (IELs) results in the suppression of cytokine production and cytolytic activity activated by IELs. Hence, iSEC1 is considered as a negative regulator of IELs function. iSEC1 is synthesized with a signal peptide (aa 1-23) that is cleaved off in the mature form. The mature form exists as a disulfide-linked homodimer.

Keywords

iSEC1; intestinal secretory cell protein 1

GENE INFORMATION

Entrez Gene ID

[208166](#)

UniProt ID

[A0A077K8V5](#)