ARG22480
anti-Chymotrypsin antibody [4E1]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [4E1] recognizes Chymotrypsin This antibody recognizes human chymotrypsin-C, also known as chymotrypsin or caldecrin. Chymotrypsin is a 239 amino acid ~30 kDa protease with an additional 13 amino acid propeptide region and a 16 amino acid signal peptide.Variations in the CTRC gene has been associated with susceptibility to hereditary, pancreatitis (PCTT), a disease characterized by pancreatic inflammation and destruction of the parenchyma (Beer et al. 2013).
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, ICC/IF, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	4E1
Isotype	IgG3
Target Name	Chymotrypsin
Species	Human
Immunogen	Purified human pancreatic chymotrypsin.
Conjugation	Un-conjugated
Alternate Names	ELA4; Chymotrypsin-C; CLCR; Caldecrin; EC 3.4.21.2

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent
ICC/IF	Assay-dependent
IHC-Fr	2 - 10 µg/ml
IHC-P	2 - 10 µg/ml
WB	0.5 - 2.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CTRC
Gene Full Name	chymotrypsin C (caldecrin)
Background	This gene encodes a member of the peptidase S1 family. The encoded protein is a serum calcium-decreasing factor that has chymotrypsin-like protease activity. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined. [provided by RefSeq, Jul 2008]
Function	Regulates activation and degradation of trypsinogens and procarboxypeptidases by targeting specific cleavage sites within their zymogen precursors. Has chymotrypsin-type protease activity and hypocalcemic activity. [UniProt]
Calculated Mw	29 kDa