ARG22522
anti-MCM5 antibody [CRCT5.1]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [CRCT5.1] recognizes MCM5 This antibody recognizes human Mcm-5 (minichromosome maintenance protein 5), also known as DNA replication licensing factor MCM5 or P1-CDC46. Mcm5 is a nuclear protein of ~95kDa with an important role in the control of DNA replication (Snyder et al. 2005).It has been reported that immunocytochemical assessment of Mcm5 expression may be of value in improving the accuracy of cervical smear testing for the detection of malignancy (Murphy et al. 2004).
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	CRCT5.1
Isotype	IgG2b
Target Name	MCM5
Species	Human
Immunogen	Bacterially expressed human Mcm5.
Conjugation	Un-conjugated
Alternate Names	CDC46 homolog; CDC46; P1-CDC46; DNA replication licensing factor MCM5; EC 3.6.4.12

Application Instructions

Application table

Application	Dilution
IHC-P	1:25 - 1:100

Application Note: IHC-P: This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

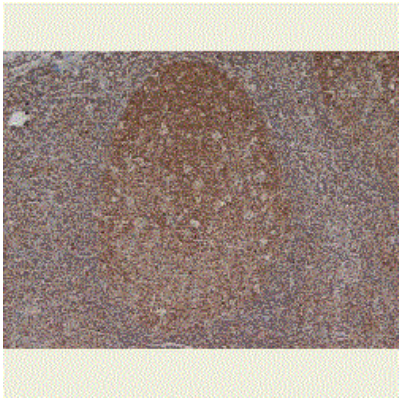
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage 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	MCM5
Gene Full Name	minichromosome maintenance complex component 5
Background	The protein encoded by this gene is structurally very similar to the CDC46 protein from S. cerevisiae, a protein involved in the initiation of DNA replication. The encoded protein is a member of the MCM family of chromatin-binding proteins and can interact with at least two other members of this family. The encoded protein is upregulated in the transition from the G0 to G1/S phase of the cell cycle and may actively participate in cell cycle regulation. [provided by RefSeq, Jul 2008]
Function	Acts as component of the MCM2-7 complex (MCM complex) which is the putative replicative helicase essential for 'once per cell cycle' DNA replication initiation and elongation in eukaryotic cells. The active ATPase sites in the MCM2-7 ring are formed through the interaction surfaces of two neighboring subunits such that a critical structure of a conserved arginine finger motif is provided in trans relative to the ATP-binding site of the Walker A box of the adjacent subunit. The six ATPase active sites, however, are likely to contribute differentially to the complex helicase activity (By similarity). Interacts with MCMBP. [UniProt]
Calculated Mw	82 kDa

Images



ARG22522 anti-MCM5 antibody [CRCT5.1] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human tonsil stained with ARG22522 anti-MCM5 antibody [CRCT5.1].