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Datasheet

XRCC6 monoclonal antibody (M01), clone 4C2-1A6

Catalog Number: H00002547-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant XRCC6.

Clone Name: 4C2-1A6

Immunogen: XRCC6 (AAH08343.1, 1 a.a. ~ 609 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:
MSGWESYYKTEGDEEAEEEQEENLEASGDYKYSGRD
SLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKII
SSDRDLLAVVFYGTEKDKNSVNFKNIYVLQELDNPGAK
RILELDQFKGQQGQKRFQDMMGHGSDYSLSEVLWVC
ANLFSDVQFKMSHKRIMLFTNEDNPHGNDSAKASRAR
TKAGDLRDTGIFLDLMHLKKPGGFDISLFYRDIISIAEDE
DLRVHFEESSKLEDLLRKVRAKETRKRALSRLKLKLNK
DIVISVGIYNLVQKALKPPPIKLYRETNEPVKTKTRTFNT
STGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDDPG
LMLMGFKPLVLLKKHHYLRPSLFVYPEESLVIGSSTLFS
ALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDD
QKIQVTPPGFQLVFLPFADDKRKMPFTEKIMATPEQVG
KMKAIVEKLRFTYRSDSFENPVLQQHFRNLEALALDLM
EPEQAVDLTLPKVEAMNKRLGSLVDEFKELVYPPDYN
PEGKVTKRKHDNEGSGSKRPKVEYSEEELKTHISKGT
LGKFTVPMLKEACRAYGLKSGLKKQELLEALTKHFQD

Host: Mouse

Reactivity: Human

Applications: ELISA, IF, IHC-P, S-ELISA, WB-Ce, WB-Re, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Isotype: IgG1 kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 2547

Gene Symbol: XRCC6

Gene Alias: CTC75, CTCBF, G22P1, KU70, ML8, TLAA

Gene Summary: The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus. [provided by RefSeq]

References:
1. DNA-PKcs Expression Predicts Response to Radiotherapy in Prostate Cancer. Bouchaert P, Guerif S, Debiais C, Irani J, Fromont G. Int J Radiat Oncol Biol Phys. 2012 Apr 10. [Epub ahead of print]
2. Myonuclear breakdown in sporadic inclusion body myositis is accompanied by DNA double strand breaks. Nishii M, Nakano S, Nakamura S, Wate R, Shinde A, Kaneko S, Kusaka H. Neuromuscul Disord. 2011 Feb 23. [Epub ahead of print]