

XPC Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2771
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human XPC (AA: 32-133) expressed in mammalian.
Mol wt	106kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB,IHC,ICC,FCM
Concentration	N/A
Full name	N/A
Synonyms	XP3;RAD4;XPCC;p125

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The protein encoded by this gene is a key component of the XPC complex, which plays an important role in the early steps of global genome nucleotide excision repair (NER). The encoded protein is important for damage sensing and DNA binding, and shows a preference for single-stranded DNA. Mutations in this gene or some other NER components can result in Xeroderma pigmentosum, a rare autosomal recessive disorder characterized by increased sensitivity to sunlight with the development of carcinomas at an early age. Alternatively spliced transcript variants have been found for this gene.

Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

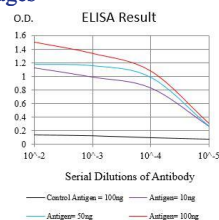
ICC: 1:50 - 1:200

FCM: 1:200 - 1:400

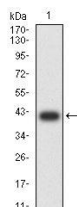
ELISA: 1:10000

Not yet tested in other applications.

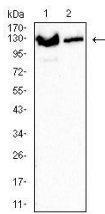
Images



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



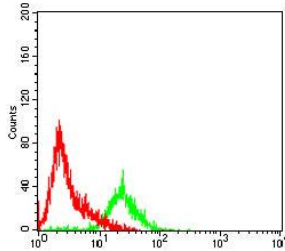
Western blot analysis using XPC mAb against human XPC (AA: 32-133) recombinant protein. (Expected MW is 41.9 kDa)



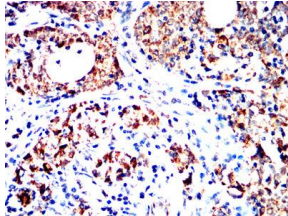
Western blot analysis using XPC mouse mAb against Jurkat (1) and HeLa (2) cell lysate.



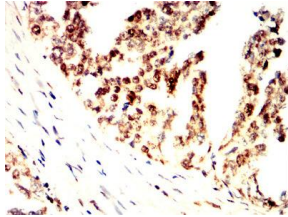
Immunofluorescence analysis of HeLa cells using XPC mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Flow cytometric analysis of HeLa cells using XPC mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using XPC mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues using XPC mouse mAb with DAB staining.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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