

XPC Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant XPC.

Catalog # AT4551a

Product Information

Application	WB, E
Primary Accession	Q01831
Other Accession	NM_004628
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6D11
Calculated MW	105953

Additional Information

Gene ID	7508
Other Names	DNA repair protein complementing XP-C cells, Xeroderma pigmentosum group C-complementing protein, p125, XPC, XPCC
Target/Specificity	XPC (NP_004619, 141 a.a. ~ 250 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	XPC Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

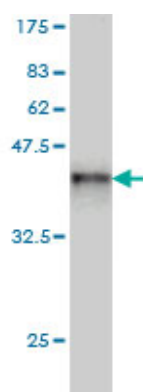
Background

This gene encodes a component of the nucleotide excision repair (NER) pathway. There are multiple components involved in the NER pathway, including Xeroderma pigmentosum (XP) A-G and V, Cockayne syndrome (CS) A and B, and trichothiodystrophy (TTD) group A, etc. This component, XPC, plays an important role in the early steps of global genome NER, especially in damage recognition, open complex formation, and repair protein complex formation. Mutations in this gene or some other NER components 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.

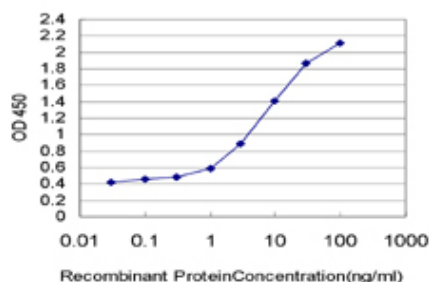
References

Polymorphic DNA repair and metabolic genes: a multigenic study on gastric cancer. Palli D, et al. Mutagenesis, 2010 Sep 3. PMID 20817763. Polymorphism in xeroderma pigmentosum complementation group C codon 939 and aflatoxin B1-related hepatocellular carcinoma in the Guangxi population. Long XD, et al. Hepatology, 2010 Jun 16. PMID 20658464. Single-nucleotide polymorphisms in DNA-repair genes and cutaneous melanoma. Figl A, et al. Mutat Res, 2010 Sep 30. PMID 20601096. XPC genetic polymorphisms correlate with the response to imatinib treatment in patients with chronic phase chronic myeloid leukemia. Guillem VM, et al. Am J Hematol, 2010 Jul. PMID 20575039. XPC gene intron 11 C/A polymorphism is a predictive biomarker for the sensitivity to NP chemotherapy in patients with non-small cell lung cancer. Zhu LB, et al. Anticancer Drugs, 2010 Aug. PMID 20571354.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



Detection limit for recombinant GST tagged XPC is approximately 0.03ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.