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XPC Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant XPC.
Catalog # AT4551a

Specification

XPC Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	Q01831
Other Accession	NM_004628
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**105953**

XPC Antibody (monoclonal) (M01) - 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.

XPC Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

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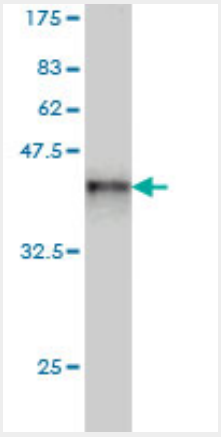
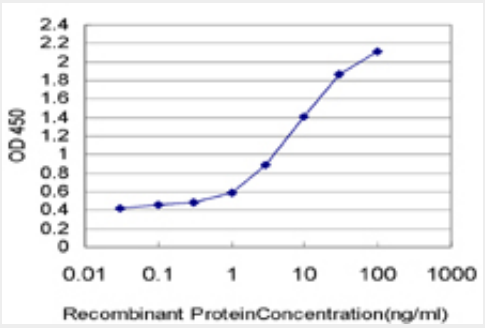
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

XPC Antibody (monoclonal) (M01) - 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.

XPC Antibody (monoclonal) (M01) - 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.

XPC Antibody (monoclonal) (M01) - 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.