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Datasheet for ABIN967532 anti-XPA antibody

2 Images

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Overview

Quantity:	0.1 mg
Target:	ХРА
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This XPA antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™	
Immunogen:	Human XPA (His-tagged) Recombinant Protein	
Clone:	12F5	
Isotype:	IgG2a kappa	
Characteristics:	 Since applications vary, each investigator should titrate the reagent to obtain optimal results. Please refer to us for technical protocols. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.	

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Target Details

Precaution of Use:

Target:	ХРА
Alternative Name:	XPA (XPA Products)
Background:	Nucleotide excision repair (NER) is a major pathway by which cells remove UV and chemically
	induced damage from DNA. The biochemistry of NER is complex and includes recognition of
	the damaged DNA, formation of incisions \sim 26-29 nucleotides apart on each side of the
	damaged DNA, excision of an oligonucleotide carrying the damaged DNA, and synthesis of a
	repair patch using the opposite DNA strand as a template. The xeroderma pigmentosum (XP)
	factors are the best characterized components in the NER pathway. They are termed XP-A to -G
	and are thought to be required for the first steps of the nucleotide excision repair process. XPA
	is a DNA damage-binding protein and XPC is a single stranded DNA-binding protein. XPB and
	XPD are DNA helicases that are components of the transcription factor TFIIH. The TFIIH
	complex is thought to be involved in transcription and NER. XPF is an endonuclease that binds
	to ERCC1 (for excision repair cross-complementing) and the ERCC1-XPF complex makes the
	incision 5' to the DNA damage. ERCC1 migrates at a molecular weight of \sim 36 kDa in SDS-PAGE.
	XPG is an endonuclease that makes the 3' incision. XPA has been reported to migrate at a
	molecular weight of 34-40 kDa in SDS-PAGE.
	Synonyms: Xeroderma Pigmentosum factor A
Molecular Weight:	34-40 kDa
Pathways:	DNA Damage Repair
Application Details	
Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤ 0.09 % sodium azide.
Preservative:	Sodium azide

should be handled by trained staff only.

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This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

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Storage:	4 °C
Storage Comment:	Store undiluted at 4° C.
Publications	
Product cited in:	Evans, Fellows, Coffer, Wood: "Open complex formation around a lesion during nucleotide excision repair provides a structure for cleavage by human XPG protein." in: The EMBO journal , Vol. 16, Issue 3, pp. 625-38, (1997) (PubMed).
	Aboussekhra, Biggerstaff, Shivji, Vilpo, Moncollin, Podust, Protić, Hübscher, Egly, Wood: " Mammalian DNA nucleotide excision repair reconstituted with purified protein components." in: Cell , Vol. 80, Issue 6, pp. 859-68, (1995) (PubMed).

Images





Western Blotting

Image 2. Western blot analysis of XPA. A Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152) was probed with the mouse anti-human XPA antibody (clone 12F5) at a concentration of 1 μ g/ml (lane 1), 0.5 μ g/ml (lane 2), or 0.25 μ g/ml (lane 3).

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