Best Tools for immunology Research

ERCC1 (PT0756) Mouse mAb

Catalog No :	YM4081
Reactivity :	Human
Applications :	WB;IHC;ELISA
Target :	ERCC1
Fields :	>>Platinum drug resistance;>>Nucleotide excision repair;>>Fanconi anemia pathway
Gene Name :	ERCC1
Protein Name :	ERCC1
Human Gene Id :	2067
Human Swiss Prot No :	P07992
Immunogen :	Synthesized peptide derived from human ERCC1 AA range: 1-100
Specificity :	This antibody detects endogenous levels of human ERCC1
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Mouse, Monoclonal/IgG1, Kappa
Dilution :	WB 1:500-2000,IHC 1:100-300,IF 1:100-300,ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	33kD
Background :	The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or

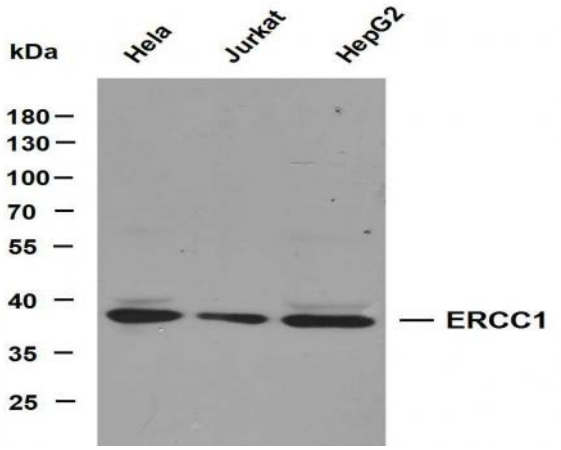
formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein ge

Function : disease:Defects in ERCC1 are the cause of cerebro-oculo-facio-skeletal syndrome type 4 (COFS4) [MIM:610758]. COFS is a degenerative autosomal recessive disorder of prenatal onset affecting the brain, eye and spinal cord. After birth, it leads to brain atrophy, hypoplasia of the corpus callosum, hypotonia, cataracts, microcornea, optic atrophy, progressive joint contractures and growth failure. Facial dysmorphism is a constant feature. Abnormalities of the skull, eyes, limbs, heart and kidney also occur.,function:Structure-specific DNA repair endonuclease responsible for the 5'-incision during DNA repair.,similarity:Belongs to the ERCC1/RAD10/SWI10 family.,subunit:Heterodimer composed of ERCC1 and XPF/ERRC4.,

Subcellular Location : [Isoform 1]: Nucleus .; [Isoform 2]: Cytoplasm . Nucleus .; [Isoform 3]: Nucleus .; [Isoform 4]: Nucleus .

Expression : Cerebellum,Lung,Ovarian cancer,Uterus,

Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-ERCC1 (PT0756) antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1: Hela Lane 2: Jurkat Lane 3: HepG2 Predicted band size: 33kDa Observed band size: 33kDa