

## Product datasheet for **TA500886AM**

### **XRCC1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI2D8]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI2D8
<b>Applications:</b>	FC, IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:50, FLOW 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human XRCC1 (NP_006288) produced in HEK293T cell.
<b>Concentration:</b>	0.5 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Biotin
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	69.3 kDa
<b>Gene Name:</b>	X-ray repair cross complementing 1
<b>Database Link:</b>	<a href="#">NP_006288</a> <a href="#">Entrez Gene 22594 Mouse</a> <a href="#">Entrez Gene 84495 Rat</a> <a href="#">Entrez Gene 7515 Human</a> <a href="#">P18887</a>
<b>Background:</b>	The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq]
<b>Synonyms:</b>	RCC

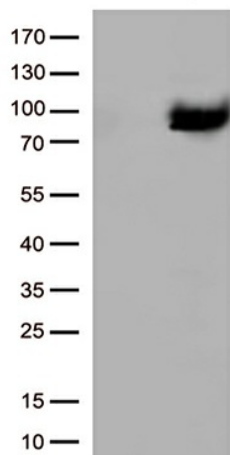


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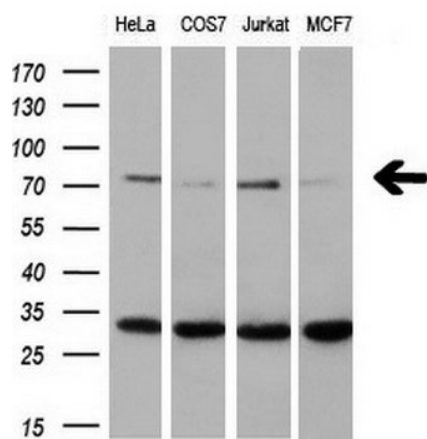
**Protein Families:** Druggable Genome

**Protein Pathways:** Base excision repair

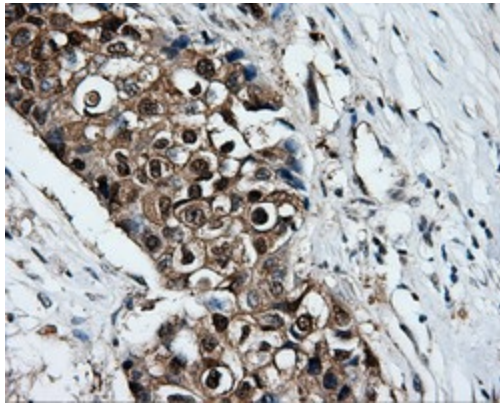
**Product images:**



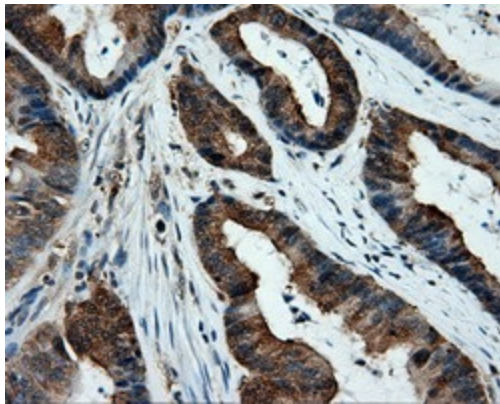
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY XRCC1 ([RC204952], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-XRCC1 (1:1000).



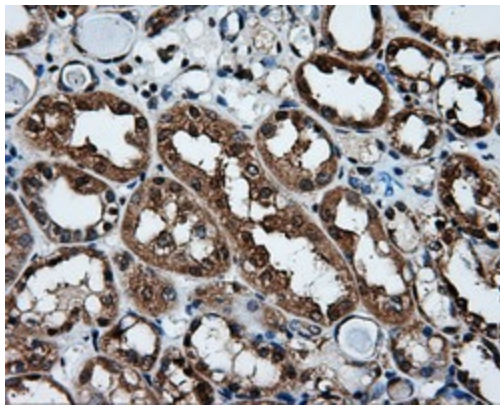
Western blot analysis of extracts (10ug) from 4 different cell lines by using anti-XRCC1 monoclonal antibody at 1:200 dilution.



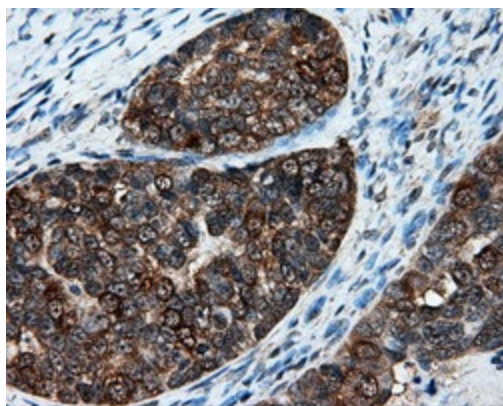
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-XRCC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500886])



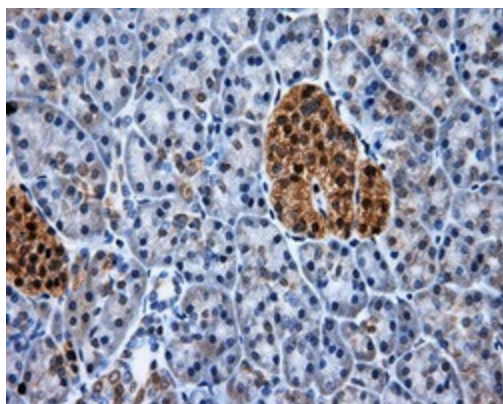
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-XRCC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500886])



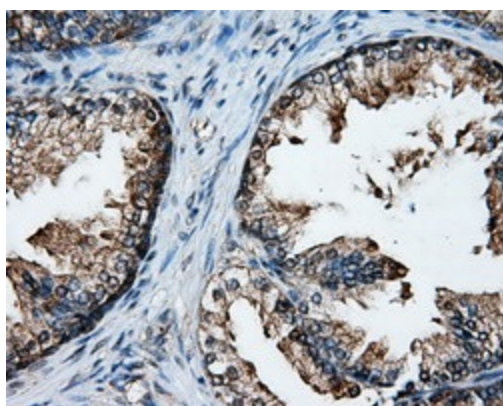
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-XRCC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500886])



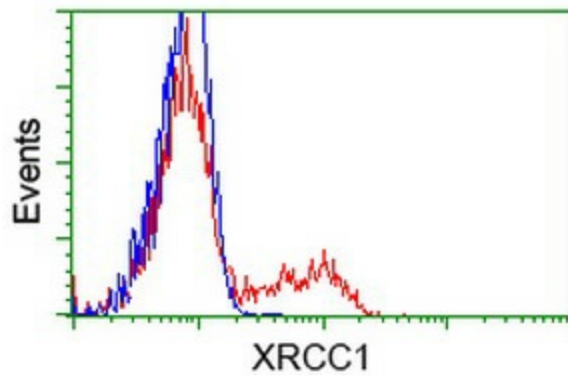
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-XRCC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500886])



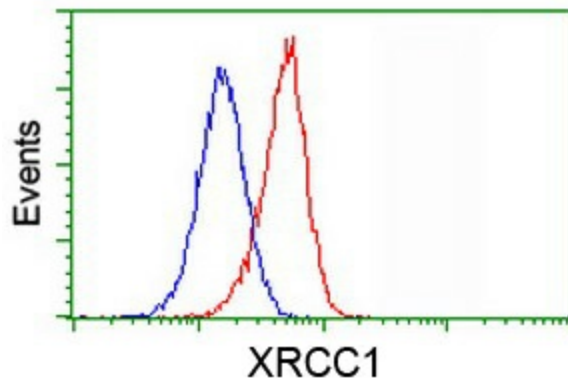
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-XRCC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500886])



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-XRCC1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500886])



HEK293T cells transfected with either [RC204952] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-XRCC1 antibody ([TA500886]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-XRCC1 antibody ([TA500886]), (Red), compared to a nonspecific negative control antibody, (Blue).