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36-2239: Anti-ERCC1 / RAD10 (Tumor Progression Marker) Monoclonal Antibody(Clone: ERCC1/2318)

Clonality: Monoclonal
Clone Name: ERCC1/2318
Application: ELISA,WB
Reactivity: Human
Gene: ERCC1
Gene ID: 2067
Uniprot ID: P07992

Alternative Name: COFS4; DNA excision repair protein ERCC1; ERCC1; Excision repair cross complementing 1;

RAD10; UV20

Isotype: Mouse IgG2b, kappa

Immunogen Information: Recombinant fragment (around aa 191-281) of human ERCC1 protein (exact sequence is

proprietary)

Description

Recognizes a protein of 110kDa, identified as Excision Repair Cross Complementing 1 (ERCC1). It is a mammalian nucleotide excision repair (NER) enzyme involved in repair of damaged DNA. ERCC1 is a homologous to RAD10 in Saccharomyces cerevisiae, which is required in mitotic intrachromosomal recombination and repair. ERCC1 is required in repair of cisplatin-induced DNA adducts and ultraviolet (UV)-induced DNA damage. High expression of ERCC1 has been linked to tumor progression in a variety of cancers including non-small cell lung cancer (NSCLC), squamous cell carcinoma of the head, ovarian cancer and esophageal cancer.

Product Info

Amount : 20 μg / 100 μg

Content: 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS

with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage condition : Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating, order antibody without BSA); Western Blot (1-2ug/ml);

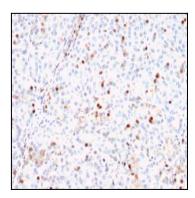


Fig. 1: Formalin-fixed, paraffin-embedded human Pancreas stained with ERCC1 Mouse Monoclonal Antibody (ERCC1/2318).



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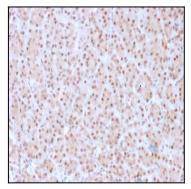


Fig. 2: Formalin-fixed, paraffin-embedded human Pancreas stained with ERCC1 Mouse Monoclonal Antibody (ERCC1/2318).

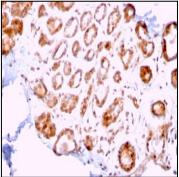


Fig. 3: Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with ERCC1 Mouse Monoclonal Antibody (ERCC1/2318).

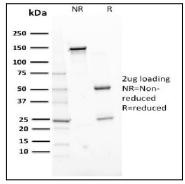


Fig. 4: SDS-PAGE Analysis Purified ERCC1 Mouse Monoclonal Antibody (ERCC1/2318). Confirmation of Purity and Integrity of Antibody.

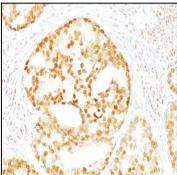


Fig. 5: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with ERCC1 Mouse Monoclonal Antibody (ERCC1/2318).



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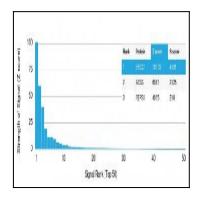


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using ERCC1 Mouse Monoclonal Antibody (ERCC1/2318). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.