

## 12-1043: Recombinant Rabbit Monoclonal Antibody to p53 Tumor Suppressor Protein(Clone : TP53/1799R)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	TP53/1799R
<b>Application :</b>	IHC,FACS,WB,IF
<b>Reactivity :</b>	Human
<b>Gene :</b>	TP53
<b>Gene ID :</b>	7157
<b>Uniprot ID :</b>	P04637
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Antigen NY-CO-13, BCC7, Cellular Tumor Antigen p53, LFS1, TP53, Transformation Related Protein 53 (TRP53), Tumor Protein p53, Tumor Suppressor p53
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	Recombinant full-length human TP53 protein

### Description

Recognizes a 53kDa protein, which is identified as p53 suppressor gene product. It reacts with the mutant as well as the wild form of p53 protein. p53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. It binds to MDM2, SV40 T antigen and human papilloma virus E6 protein. Positive nuclear staining with p53 antibody has been reported to be a negative prognostic factor in breast carcinoma, lung carcinoma, colorectal, and urothelial carcinoma. Anti-p53 positivity has also been used to differentiate uterine serous carcinoma from endometrioid carcinoma as well as to detect intratubular germ cell neoplasia. Mutations involving p53 are found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Purification :</b>	Purified Ab with BSA and Azide at 200ug/ml
<b>Content :</b>	200ug/ml of recombinant MAb purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Flow Cytometry (1-2µg/million cells); Immunofluorescence (1-2µg/ml); Western Blot (1-2µg/ml); ,Immunohistochemistry (Formalin-fixed) (1-2µg/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),

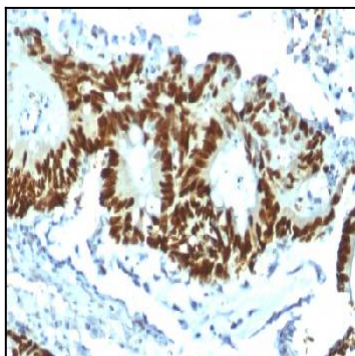


Figure 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with p53 Recombinant Rabbit Monoclonal Antibody (TP53/1799R)

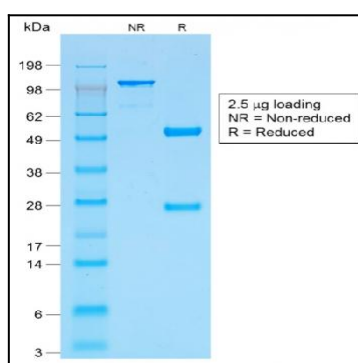


Figure 2: Analysis of Protein Array containing more than 19,000 full-length human proteins using p53 Recombinant Rabbit Monoclonal Antibody (TP53/1799R) Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ 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 HuProt™ 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.