Advanced Targeting Systems

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HRP-labeled Antibody to p53
RABBIT POLYCLONAL

Catalog Number: AB-236
Quantity: 100 micrograms
Format: Stabilized buffer with 50% glycerol
Host: Rabbit
Immunogen: p53 peptide (6-45aa)-KLH conjugates

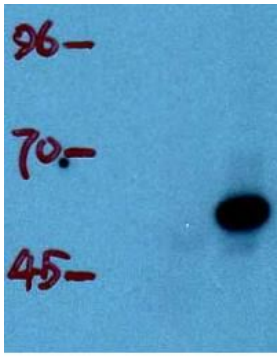
Background: p53 is a tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. It binds to mdm2, SV40 T antigen, and human papilloma virus E6 protein. p53 senses DNA damage and possibly facilitates repair. Mutation involving p53 is found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma. It also plays an essential role in the regulation of cell cycle, specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. It is postulated to bind as a tetramer to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of the TP53 gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome.

Specificity & Preparation: Recognizes human p53 in cell and tissue. Affinity-purified with peptide-affinity chromatography. Conjugated to horseradish peroxidase (HRP) via reductive amination. Concentration 250 mg/ml.

Usage: Reported to be effective for ELISA (1:2500) and immunoblotting (western blot, 1:2500).

Storage: Store the antibody at -20°C. Stable for up to three years. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

To view protocol(s) for this and other products please visit: www.ATSbio.com/library/protocols



Western blot analysis of the p53 in Hela cell lysates (right) and CHO cell lysates (left) with anti-p53 HRP (1 μg/mL).