

## APE1 monoclonal antibody

Catalog: MB9064

Host: Mouse

Reactivity: Human, Mouse

### BackGround:

The role of transcription factors in the regulation of gene expression is well established. Although the activity of these factors can be regulated by phosphorylation, evidence has indicated regulation of DNA binding mediated by changes in reduction-oxidation (redox) status. Mutational analysis has identified a single conserved cysteine residue mapping within the DNA binding domains of Fos and Jun. Chemical oxidation or modification of this cysteine residue inhibits the DNA binding activity of Fos and Jun. A similar mode of regulation has been recently proposed for other nuclear transcription factors. Oxidation is reversible by these compounds or by a cellular redox/DNA repair protein identified originally as Ref-1 (redox factor 1). Ref-1 is identical to a previously characterized DNA repair enzyme designated HAP1, APE or APEX.

### Product:

Mouse IgG2b, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

36 kDa

### Swiss-Prot:

P27695 Human;P28352 Mouse

### Purification&Purity:

Protein affinity purified.

### Applications:

WB:1:1,000-1:5,000

ICC:1:50

IHC:1:50-1:200

FC:1:50-1:100

### Storage&Stability:

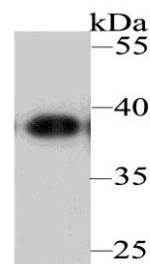
Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.

### Specificity:

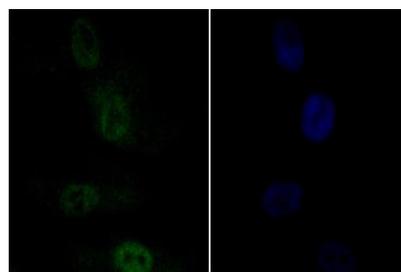
APE1 monoclonal antibody detects endogenous levels of

APE1 protein.

### DATA:



Western blot analysis of APE1 on HL-60 lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:1,000 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:5,000 dilution was used for 1 hour at room temperature.



ICC staining APE1 in MG-63 cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with APE1 monoclonal antibody at a dilution of 1:50 for 1 hour at room temperature, washed with PBS. Alexa Fluor & trade; 488 Goat anti-Mouse IgG was used as the secondary antibody at 1/100 dilution. The nuclear counter stain is DAPI (blue).

### Note:

For research use only, not for use in diagnostic procedure.

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## PRODUCT DATA SHEET

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