bsm-51609M **[Primary Antibody]**

APEX1 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1, k
Clonality: Monoclonal
CloneNo.: F9S3
GeneID: 328
SWISS: P27695
Target: APEX1
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The APEX gene encodes the major AP endonuclease in human cells. It encodes the APEX endonuclease, a DNA repair enzyme with apurinic/apyrimidinic (AP) activity. Such AP activity sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases. The AP sites are the most frequent pre-mutagenic lesions that can prevent normal DNA replication. Splice variants have been found for this gene; all encode the same protein. Disruptions in the biological functions related to APEX are associated with many various malignancies and neurodegenerative diseases.[provided by RefSeq, Dec 2019]

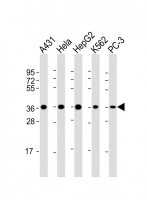
Applications: **WB** (1:500-4000)
IHC-P (1:25)
IHC-F (1:25)
IF (1:25)
ICC/IF (1:25)

Reactivity: Human

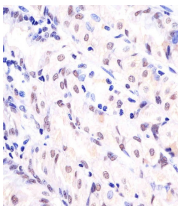
Predicted MW.: 36 kDa

Subcellular Location: Cytoplasm ,Nucleus

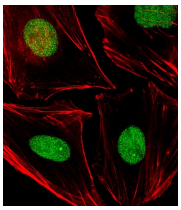
VALIDATION IMAGES



Sample: Lane 1: A431 cell lysates Lane 2: Hela cell lysates Lane 3: HepG2 cell lysates Lane 4: K562 cell lysates Lane 5: PC-3 cell lysates Primary: Anti-APEX1 (bsm-51609M) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 36 kD Observed band size: 36 kD



Paraformaldehyde-fixed, paraffin embedded (Human stomach section); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (APEX1) Monoclonal Antibody, Unconjugated (bsm-51609M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (APEX1) monoclonal Antibody, Unconjugated (bsm-51609M) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes,Dylight®554 Phalloidin (red) was used to stain the cell Cytoplasmic actin.