Product datasheet Anti-APEX1 Antibody (Clone#17A44) Catalog Number: BM5218



BOSTER BIOLOGICAL TECHNOLOGY

Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

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Basic Information	
Product Name	Anti-APEX1 Antibody (Clone#17A44)
Gene Name	APEX1
Source	Rabbit
Clonality	Monoclonal
lsotype	lgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human APE1
Concentration	500 ug/ml
Observed MW	36 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Apel initiates the repair of abasic sites and is essential for the base excision repair (BER) pathway. Repair activities of Apel are stimulated by interaction with XRCC1, another essential protein in BER. Apel functions as a redox factor that maintains transcription factors in an active, reduced state but can also function in a redox-independent manner as a transcriptional cofactor to control different cellular fates such as apoptosis, proliferation and differentiation.

Selected Validation Data

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B STER[®] antibody and ELISA experts

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Western blot analysis of anti-APEX1 antibody (BM5218). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates,

- Lane 2: human RT4 whole cell lysates,
- Lane 3: human HepG2 whole cell lysates,
- Lane 4: human U2OS whole cell lysates,
- Lane 5: rat brain tissue lysates,
- Lane 6: rat lung tissue lysates,
- Lane 7: mouse brain tissue lysates,
- Lane 8: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-APEX1 antigen affinity purified monoclonal antibody (BM5218) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for APEX1 at approximately 36 kDa. The expected band size for APEX1 is at 36 kDa.



IHC analysis of APEX1 using anti-APEX1 antibody (BM5218) . APEX1 was detected in a paraffin-embedded section of human colon cancer tissue. The tissue section was incubated with rabbit anti-APEX1 Antibody (BM5218) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.