



PhosphoSolutions®
Antibodies that work™

Colorado Biosciences Park
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Anti-COBRA 1

Catalog Number: 319-COBRA **Size:** 100 µl **Clone:** F7E4 **Isotype:** IgG₁

Product Description: Purified mouse monoclonal antibody

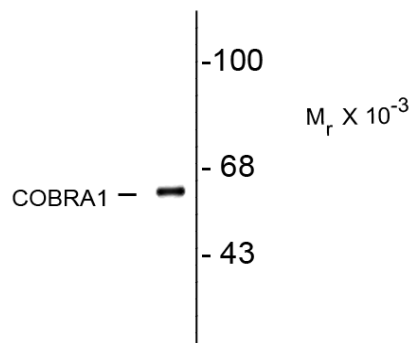
Applications: **WB:** 1:1000

Antigen: Recombinant full length human COBRA1 purified from *E. coli*

Species reactivity: The antibody has been directly tested for reactivity in Western blots with human, mouse and rat tissue.

Biological Significance: COBRA1 (cofactor of BRCA1) also known as NELF-B, is an essential component of the negative elongation factor (NELF) complex. COBRA1 has been shown to directly bind estrogen receptor alpha (ER α) and repress ER α -mediated transcription (Aiyar SE et al., 2004). COBRA1 has also been demonstrated to interact with c-Jun and c-Fos suggesting a role in modulation of the AP-1 pathway and therefore may be important in cell proliferation, differentiation, apoptosis and oncogenesis (Zhong H et al., 2004)

Anti-COBRA1



Western blot of neonatal rat brain lysate showing specific immunolabeling of the ~62K COBRA1 protein.

Purification Method: Protein G purified culture supernatant

Antibody Specificity: Specific for the ~62k COBRA1 protein in Western blots of neonatal rat brain lysate.

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WB = Western Blot **IF** = Immunofluorescence **IHC** = Immunohistochemistry **IP** = Immunoprecipitation

Packaging: 100 µl in PBS + 0.05 % NaN₃. Adequate amount of material to conduct 10-mini Western Blots.

Storage and Stability: Store at -20°C; stable for at least one year.

Shipment: Domestic - Blue Ice; International - Blue Ice or Dry Ice.

Quality Control Tests: Western blots performed on each lot.

References:

Aiyar, SE, Sun J, Blair AL, Moskaluk CA, Lu Y, Ye Q, Yamaguchi Y, Mukherjee A, Ren D, Handa H, Li R (2004). Attenuation of estrogen receptor alpha-mediated transcription through estrogen-stimulated recruitment of a negative elongation factor. *Genes Dev.* **18** (17): 2134–46.

Zhong, H, Zhu J, Zhang H, Ding L, Sun Y, Huang C, Ye Qi (2004). COBRA1 inhibits AP-1 transcriptional activity in transfected cells. *Biochem. Biophys. Res. Commun.* **325** (2): 568–73.

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