For Research Use Only

TFAP2A/AP-2 Recombinant monoclonal antibody, PBS Only

Catalog Number:87936-1-PBS

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Basic Information

Catalog Number:
87936-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4112

GenBank Accession Number:
BC017754

GeneID (NCBI):
7020

UNIPROT ID:
P05549

Full Name:
transcription factor AP-2 alpha (activating enhancer binding protein 2 alpha)

Calculated MW:
431 aa, 47 kDa

Observed MW:
47 kDa

Purification Method:
Protein A purification

CloneNo.:
253521E1

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

The activator protein-2 (AP-2) family of transcription factors comprises five 52-kDa isoforms (AP-2α, AP-2β, AP-2γ, AP-2δ, and AP-2ε), which share a common structure: a proline/glutamine-rich transactivation domain in the N-terminal region and a helix-span-helix domain in the C-terminal region, which mediates dimerization and site-specific DNA binding. Depending on the cellular context, the AP-2 transcription factors are individually associated either with cell differentiation and development or with cancer progression/regression (PMID: 21966377). TFAP2A (AP-2-alpha) is the only AP-2 protein required for early morphogenesis of the lens vesicle. Together with the CITED2 coactivator, stimulates the PITX2 P1 promoter transcription activation (PMID: 11694877).

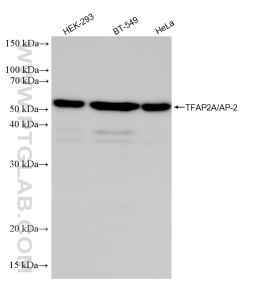
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

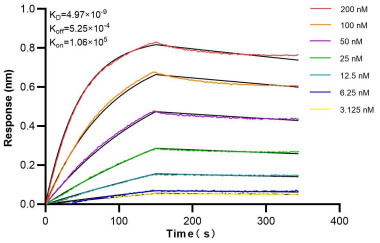
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W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87936-1-RR (TFAP2A,AP-2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87936-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87936-1-RR against Human TFAP2A/AP-2 were performed. The affinity constant is 4.97 nM.