

Rabbit anti-Human AP2 gamma/TFAP2C Polyclonal Antibody | anti-TFAP2C antibody

Anti-AP2 gamma/TFAP2C Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126152	Rabbit	Human	ELISA, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

AP2 gamma/TFAP2C; Polyclonal Antibody; Anti-AP2 gamma/TFAP2C Antibody Picoband; anti-TFAP2C antibody

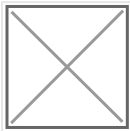
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Rat Vegfa
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-TFAP2C antibody	ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Assay Type	Sandwich
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<1 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 4. IF analysis of AP2 Gamma/TFAP2C using anti-AP2 Gamma/TFAP2C antibody (AAA126152).AP2 Gamma/TFAP2C was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-AP2 Gamma/TFAP2C Antibody (AAA126152) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



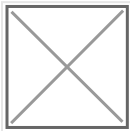
IHC (Immunohistochemistry)

Figure 2. IHC analysis of AP2 Gamma/TFAP2C using anti-AP2 Gamma/TFAP2C antibody (AAA126152).AP2 Gamma/TFAP2C was detected in a paraffin-embedded section of human testis cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-AP2 Gamma/TFAP2C Antibody (AAA126152) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of AP2 Gamma/TFAP2C using anti-AP2 Gamma/TFAP2C antibody (AAA126152).AP2 Gamma/TFAP2C was detected in a paraffin-embedded section of human testis cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-AP2 Gamma/TFAP2C Antibody (AAA126152) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of AP2 Gamma/TFAP2C using anti-AP2 Gamma/TFAP2C antibody (AAA126152).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human MCF-7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-AP2 Gamma/TFAP2C antigen affinity purified polyclonal antibody (#AAA126152) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for AP2 Gamma/TFAP2C at approximately 49 kDa. The expected band size for AP2 Gamma/TFAP2C is at 49 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TFAP2C antibody	Background: Vascular permeability factor/vascular endothelial growth factor(VPF/VEGF), a potent cytokine expressed by most malignant tumors, has critical roles in vasculogenesis and both physiological and pathological angiogenesis. VEGF produced by tumor cells potently stimulates endothelial cell proliferation and angiogenesis and plays a key role in the pathophysiology of several neoplasias. VEGF may also play a pivotal role in mediating the development and progression of diabetic retinopathy. VEGF, a major regulator of angiogenesis, binds to two receptor tyrosine kinases, KDR/Flk-1 and Flt-1. The VEGF gene is mapped by fluorescence in situ hybridization to chromosome 6p12.The standard product used in this kit is recombinant rat VEGF164, which is a 25KDa single chain as well as a 50KDa dimer. Principle of the Assay: The Quick Picokine™ Rat Vegfa Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Rat Vegfa in cell culture supernatants, serum and plasma (heparin, EDTA, citrate). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Rat Vegfa with immunogen: Expression system for standard: NS0; Immunogen sequence: A27-R190. To measure Rat Vegfa, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product is linearly proportional to Rat Vegfa in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Rat Vegfa in the sample.
Product Categories/Family for anti-TFAP2C antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507445
NCBI GeneID	7022
NCBI Accession #	NP_003213.1
NCBI GenBank Nucleotide #	NM_003222.3
UniProt Accession #	Q92754; O00685; O00730; Q86V30; Q8IVB6; Q9P1X2
Molecular Weight	49,177 Da
NCBI Official Full Name	transcription factor AP-2 gamma
NCBI Official Synonym Full Names	transcription factor AP-2 gamma (activating enhancer binding protein 2 gamma)
NCBI Official Symbol	TFAP2C
NCBI Official Synonym Symbols	ERF1; TFAP2G; hAP-2g; AP2-GAMMA
NCBI Protein Information	transcription factor AP-2 gamma; estrogen receptor factor 1; transcription factor ERF-1; activating enhancer-binding protein 2 gamma; transcription factor AP-2 gamma (activating enhancer-binding protein 2 gamma)
UniProt Protein Name	Transcription factor AP-2 gamma
UniProt Gene Name	TFAP2C
UniProt Synonym Gene Names	AP2-gamma
UniProt Entry Name	AP2C_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ap2-gamma-tfap2c-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/126152>