

## Rabbit BOK Polyclonal Antibody | anti-BOK antibody

Anti-BOK Antibody Picoband

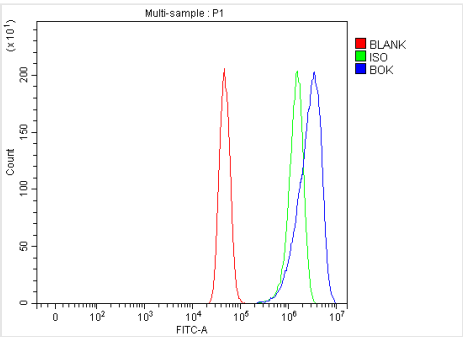
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA127311 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

BOK; Polyclonal Antibody; Anti-BOK Antibody Picoband; Serine protease HTRA3; phosphopantothencysteine synthetase; Phosphopantothenate--cysteine ligase; Phosphopantothencysteine synthetase; PPC synthetase; PPCS; COAB; anti-BOK antibody

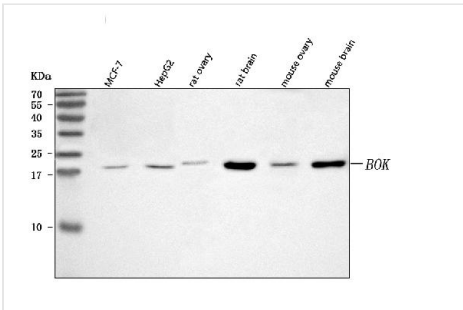
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                |
| Reactivity                                    | Human, Mouse, Rat                                                                                                                                                                                                     |
| Clonality                                     | Polyclonal                                                                                                                                                                                                            |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                            |
| Specificity                                   | Expressed in heart, placenta, skeletal muscle kidney, pancreas, spleen, prostate, testis, ovary, ileum and colon.Expressed in lung endothelial and smooth muscle cells (at protein level).                            |
| Purity/Purification                           | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                   | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-BOK antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                     | E coli-derived human BOK recombinant protein (Position: M1-C177).                                                                                                                                                     |
| Subcellular Localization                      | Cytosol                                                                                                                                                                                                               |
| Reconstitution                                | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Cross Reactivity                              | No cross-reactivity with other proteins.                                                                                                                                                                              |
| Protein Function                              | Catalyzes the first step in the biosynthesis of coenzyme A from vitamin B5, where cysteine is conjugated to 4'-phosphopantothenate to form 4-phosphopantothencysteine.                                                |
| Preparation and Storage                       | 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. |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of U251 cells using anti-BOK antibody (AAA127311). Overlay histogram showing U251 cells stained with AAA127311 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-BOK Antibody (AAA127311, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of BOK using anti-BOK antibody (AAA127311). 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, Lane 2: human HepG2 whole cell lysates, Lane 3: rat ovary tissue lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse ovary tissue lysates, Lane 6: mouse brain tissue 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-BOK antigen affinity purified polyclonal antibody (#AAA127311) at 0.5ug/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 BOK at approximately 27 kDa. The expected band size for BOK is at 23 kDa.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-BOK antibody | The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Product Categories/Family for anti-BOK antibody   | Primary Antibodies; Amino Acid Metabolism; Amino Acids; Cofactors; Vitamins/Minerals; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Signal Transduction; Vitamins/Minerals                                                                                    |
| References                                        | 1. Hsu, S. Y., Kaipia, A., McGee, E., Lomeli, M., Hsueh, A. J. W. Bok is a pro-apoptotic Bcl-2 protein with restricted expression in reproductive tissues and heterodimerizes with selective anti-apoptotic Bcl-2 family members. Proc. Nat. Acad. Sci. 94: 12401-12406, 1997.    |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| NCBI GI #                        | 14210524                                                                   |
| NCBI GeneID                      | 666                                                                        |
| NCBI Accession #                 | NP_115904.1                                                                |
| NCBI GenBank Nucleotide #        | NM_032515.4                                                                |
| UniProt Accession #              | Q9UMX3                                                                     |
| Molecular Weight                 | 23,280 Da                                                                  |
| NCBI Official Full Name          | bcl-2-related ovarian killer protein                                       |
| NCBI Official Synonym Full Names | BCL2-related ovarian killer                                                |
| NCBI Official Symbol             | BOK                                                                        |
| NCBI Official Synonym Symbols    | BOKL; BCL2L9                                                               |
| NCBI Protein Information         | bcl-2-related ovarian killer protein; hBOK; bcl2-L-9; bcl-2-like protein 9 |
| UniProt Protein Name             | Bcl-2-related ovarian killer protein                                       |

|                            |                        |
|----------------------------|------------------------|
| UniProt Gene Name          | BOK                    |
| UniProt Synonym Gene Names | BCL2L9; hBOK; Bcl2-L-9 |
| UniProt Entry Name         | BOK_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/bok-antibody-flow-cytometry-western-blot-elisa/127311>