

For Research Use Only

NOX1 Recombinant antibody, PBS Only

Catalog Number: 84700-1-PBS



Basic Information

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| Catalog Number: 84700-1-PBS | GenBank Accession Number: BC075014 | Purification Method: Protein A purification |
| Size: 100ug, Concentration: 1 mg/ml by Nanodrop; | GeneID (NCBI): 27035 | CloneNo.: 241935E7 |
| Source: Rabbit | UNIPROT ID: Q9Y558 | |
| Isotype: IgG | Full Name: NADPH oxidase 1 | |
| Immunogen Catalog Number: AG12187 | Calculated MW: 564 aa, 65 kDa | |
| | Observed MW: 59 kDa | |

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse

Background Information

NOX1(NADPH oxidase 1) is also named as MOX1, NOH1 and belongs to the reactive oxygen species (ROS)-generating NADPH oxidase family. It plays a role in host defense, cell growth and differentiation, cell migration, and malignant transformation(PMID:20351171). It also can mediate oncogenic Ras-induced upregulation of VEGF and angiogenesis by activating Sp1 through Ras-ERK-dependent phosphorylation of Sp1(PMID:18454179). It has 3 isoforms produced by alternative splicing with the molecular weight of 65 kDa, 22 kDa and 59 kDa. The full length protein has two glycosylation sites. It always can be detected two bands of 63 kDa and 55 kDa in cells by western blot or another lower band of 45 kDa which is not likely due to alternative translation or splice variation, but as adjustment for the signal peptide and tag removal(PMID:17560373) or unspicifc(PMID:17460729).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

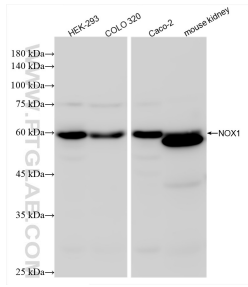
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

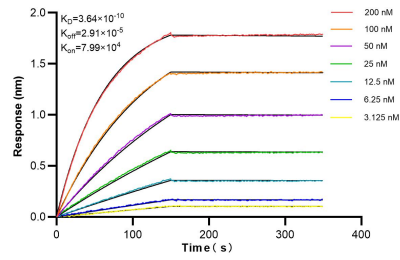
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84700-1-RR (NOX1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84700-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84700-1-RR against Human NOX1 were performed. The affinity constant is 0.364 nM.