## PAI-1 (D9C4) Rabbit mAb



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| Applications:<br>WB          | Reactivity:<br>H Mk B  | Sensitivity:<br>Endogenous   | <b>MW (kDa):</b><br>48   | Source/Isotype:<br>Rabbit IgG   | UniProt ID:<br>#P05121  | Entrez-Gene Id<br>5054  |  |
|------------------------------|--|--|--|---|---|---|--|
| Product Usage<br>Information | • •  | Application  |  | Dilution  |   |   |  |
| momation                     | We   | stern Blotting   |  |   | 1:1000  |   |  |
| Storage                      |  | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.                                  |  |   |   |   |  |
| Specificity / Sens           | sitivity PAI-  | PAI-1 (D9C4) Rabbit mAb recognizes endogenous levels of total PAI-1 protein.   |  |   |   |   |  |
| Source / Purifica            |  | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg294 of human PAI-1 protein.  |  |   |   |   |  |
| Background                   | urok<br>plas<br>tissu<br>there<br>expr<br>leve<br>inhib<br>Rese<br>resis<br>indu | inase and tissue pl<br>minogen to plasmir<br>te remodeling. Sect<br>eby modulating cell<br>ession in liver, vaso<br>is of PAI-1 are asso<br>pitor-1 deficiency (P<br>earch studies have<br>stance, and type 2 of | asminogen activa<br>n (1). PAI-1 regula<br>reted PAI-1 intera<br>-ECM interactions<br>cular endothelial of<br>ociated with deep<br>(AI-1D), which is of<br>shown that high of<br>diabetes (6-8). PAII migration and in | to the serine proteinase ators (uPA and tPA) and tes fibrinolysis and play acts with the extracellula is (2,3). PAI-1 is express cells, platelets, macroph vein thrombosis (4). De characterized by increas levels of PAI-1 are assonal-1 is transcriptionally remassion in cancer cells (9)  | thus, reduces the con is an important role in reatrix (ECM) composed in a variety of tissurages, and adipose tissefects in PAI-1 cause posed bleeding after injurciated with obesity, agegulated by TGF-β and | version of inactive vessel patency and nent vitronectin, les with higher sue (1). Increased clasminogen activator by or surgery (5). ing, insulin d mediates TGF-β- |  |
| Background Ref               | 2. Si<br>3. Ko<br>4. Ba<br>5. Fa<br>6. Pa  | gurdardottir, O. and<br>onstantinides, S. et<br>aldwin, J.F. et al. (2<br>ay, W.P. et al. (1997<br>annacciulli, N. et al.  | d Wiman, B. (199-<br>al. (2001) Circula<br>012) J Vasc Surg<br>') Blood 90, 204-8<br>(2002) Obes Re  | 1986) <i>EMBO J</i> 5, 2539-44.<br>Wiman, B. (1994) <i>Biochim Biophys Acta</i> 1208, 104-10.<br>al. (2001) <i>Circulation</i> 103, 576-83.<br>12) <i>J Vasc Surg</i> 56, 1089-97.<br><i>Blood</i> 90, 204-8.<br>(2002) <i>Obes Res</i> 10, 717-25.<br>(1991) <i>Diabetologia</i> 34, 457-62. |   |   |  |

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

**WB:** Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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10. Zhang, L.P. et al. (1999) J Hepatol 31, 703-11.

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