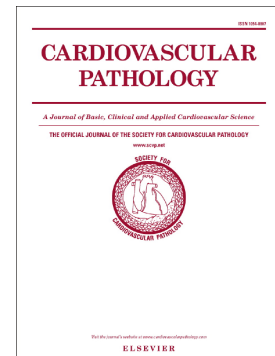


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## CD39 and CD73 in the aortic valve – biochemical and immunohistochemical analysis in valve cell populations and its changes in valve mineralization

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### Abbreviations:

ADP, adenosine diphosphate; AMP, adenosine monophosphate; AP, alkaline phosphatase; ATP, adenosine triphosphate; BSA, bovine serum albumin; CAVD, calcific aortic valve disease; Cbf, core binding factor; CD31 (PECAM-1), platelet endothelial cell adhesion molecule, CD39 (eNTPD1), ecto-nucleoside triphosphate diphosphohydrolase 1; CD73 (e5NT), ecto-5' nucleotidase; CD90 (Thy1), cluster of differentiation 90, thymus cell antigen; DAB, 3,3'-diaminobenzidine; DAPI, 4',6-diamidino-2-phenylindole; DMEM, Dulbecco's Modified Eagle's Medium; ECGM, Endothelial Cell Growth Medium; ECs, endothelial cells; EHNA, erythro-9-(2-hydroxy-3-nonyl) adenine; FCS, fetal calf serum; FGF2, fibroblast growth factor; GPI, glycosphosphatidylinositol; hAVECs, human aortic valve endothelial cells; hAVICs, human aortic valve interstitial cells; HBSS, Hank's Balanced Salt Solution; HE, hematoxylin; HPLC, high-performance liquid chromatography; NPP1, nucleotide diphosphatase/phosphodiesterase 1; PBS, phosphate buffered saline; RANK, Receptor Activator of Nuclear Factor  $\kappa$  B; RANKL, receptor activator of nuclear factor kappa-B ligand; SEM, standard error of the mean.

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