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Von Willebrand Factor A Domain

National Cancer Institute

Source

National Cancer Institute. *Von Willebrand Factor A Domain*. NCI Thesaurus. Code C26043.

The type A domain (vWF) of the von Willebrand factor, a large multimeric glycoprotein found in blood plasma, is the prototype for a protein superfamily. Von Willebrand Factor A Domain is found in various plasma proteins and other extracellular proteins. Although the majority of VWA-containing proteins are extracellular, the most ancient ones present in all eukaryotes are all intracellular proteins involved in functions such as transcription, DNA repair, ribosomal and membrane transport and the proteasome. A common feature appears to be involvement in multiprotein complexes. Proteins that incorporate vWF domains participate in numerous biological events (e.g. cell adhesion, migration, homing, pattern formation, and signal transduction), involving interaction with a large array of ligands. A number of human diseases arise from mutations in VWA domains. (From Interpro IPR002035)