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FHA Domain

National Cancer Institute

Source

National Cancer Institute. *FHA Domain*. NCI Thesaurus. Code C13945.

The FHA (Forkhead-Associated) domain is a phosphopeptide recognition domain found in many regulatory proteins. It displays specificity for phosphothreonine-containing epitopes but will also recognize phosphotyrosine with relatively high affinity. It spans approximately 80-100 amino acid residues folded into an 11-stranded sandwich, which sometimes contain small helical insertions between the loops connecting the strands. To date, genes encoding FHA-containing proteins have been identified in eubacterial and eukaryotic but not archaeal genomes. The domain is present in a diverse range of proteins, such as kinases, phosphatases, kinesins, transcription factors, RNA-binding proteins and metabolic enzymes which partake in many different cellular processes. DNA repair, signal transduction, vesicular transport and protein degradation are just a few examples.