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ITAM

National Cancer Institute

Source

National Cancer Institute. *ITAM*. NCI Thesaurus. Code C14048.

ITAM (Immunoreceptor Tyrosine-based Activation Motif) or ARAM (Ag Recognition Activation Motif) (Y-X-X-L-(X)₆₋₈-Y-X-X-L), a protein domain involved in STP, binds to SH2 domain, e.g. in CD247/x chain, FcεRI γ chain, or DAP12. Phosphorylated immunoreceptor signaling motifs (ITAMs) exhibit unique abilities to bind and activate Lyn and Syk tyrosine kinases. Motif may be dually phosphorylated on tyrosine that links antigen receptors to downstream signaling machinery.