

• - References

Reference #	PMID	Paper title	Authors	Year
Ref. 1	22615937	Proteomic analysis of S-acylated proteins in human B cells reveals palmitoylation of the immune regulators CD20 and CD23.	Ivaldi C et al.	2012
Ref. 2	25914232	Bioorthogonal mimetics of palmitoyl-CoA and myristoyl-CoA and their subsequent isolation by click chemistry and characterization by mass spectrometry reveal novel acylated host-proteins modified by HIV-1 infection.	Colquhoun DR et al.	2015

• - Studies

Study #	Reference	Organism	Cell type	Subcellular location	Technique(s)	Palmitome study?
Study 1	Ivaldi C et al., 2012	Homo sapiens	B-cell	Total membrane	ABE (Acyl-Biotin Exchange)	Yes
Study 2	Ivaldi C et al., 2012	To be annotated	To be annotated	To be annotated	To be annotated	No
Study 3	Colquhoun DR et al., 2015	Homo sapiens	174 x CEM.T1	Total cell lysate	Labeling of substrate with 15-Azidopentadecanoic Acid (Click-IT Palmitic Acid)	Yes

• - Palmitoylation hits and sites

Hit ID	Study #	Reference	Hit list	Isoform #	Sites (ID, position, characterisation techniques)
SPalmH:10411	Study 2	-	-	-	SPalmS:497 , Cys ¹⁷ (uncertain) SPalmS:498 , Cys ¹⁸ (uncertain)
SPalmH:14625	Study 3	List	-	-	None
SPalmH:6006	Study 1	-	-	-	SPalmS:110 , Cys ¹⁸ SPalmS:12 , Cys ¹⁷

• - Cysteine summary and predictions

Pos in alignment	17	18	160	163	174	191	259	273	282	288
Topology	C	C	E	E	E	E	E	E	E	E
Disulfide			yes	yes	yes	yes	yes	yes	yes	yes
SS prediction	C	C	E	C	E	H	E	C	E	C
SS UniProt	NA	NA	NA	NA	NA	H	NA	NA	NA	NA
Isoform 1 [Main isoform]	Cys¹⁷ 8.006 -0.41045932	Cys¹⁸ 27.87 0.089537525	Cys ¹⁶⁰ 1.515 -0.73833778	Cys ¹⁶³ 1.602 -0.54500399	Cys ¹⁷⁴ 0.797 -0.76751577	Cys ¹⁹¹ 0.927 -0.96407301	Cys ²⁵⁹ 6.189 -0.88446653	Cys ²⁷³ 5.803 -1.1413804	Cys ²⁸² 1.292 -0.53982764	Cys ²⁸⁸ 5.269 -0.61959751

Legend:

Topology	U	Undefined
	E	Extracellular/Lumenal
	T	Transmembrane
	C	Cytosolic/Nuclear
Prediction scores	From top to bottom: Cysteine position, CSS-Palm 4.0 score, PalmPred score Color code for cysteine position: Green (Predicted (high confidence prediction with CSS-Palm or/and PalmPred)) / Purple (Predicted but not validated (in terms of disulfide bond and cellular location)) / Grey (Not predicted) Color code for CSS-Palm 4.0 : High confidence (green), Medium confidence (orange), Low confidence (red), Not predicted (grey). Color code for PalmPred : High confidence (score > 0.4) (green), Medium confidence (0.1 > score > 0.4) (orange), Low confidence (score < 0.1) (red), Not predicted (grey).	

