

## • - References

Reference #	PMID	Paper title	Authors	Year
Ref. 1	<a href="#">22615937</a>	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	<a href="#">25914232</a>	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	<a href="#">Ivaldi C et al., 2012</a>	Homo sapiens	B-cell	Total membrane	ABE (Acyl-Biotin Exchange)	Yes
Study 2	<a href="#">Ivaldi C et al., 2012</a>	To be annotated	To be annotated	To be annotated	To be annotated	No
Study 3	<a href="#">Colquhoun DR et al., 2015</a>	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 <sup>17</sup> (uncertain) SPalmS:498 , Cys <sup>18</sup> (uncertain)
SPalmH:14625	Study 3	<a href="#">List</a>	-	-	None
SPalmH:6006	Study 1	-	-	-	SPalmS:110 , Cys <sup>18</sup> SPalmS:12 , Cys <sup>17</sup>

## • - 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]	<b>Cys<sup>17</sup></b> 8.006 -0.41045932	<b>Cys<sup>18</sup></b> 27.87 0.089537525	Cys <sup>160</sup> 1.515 -0.73833778	Cys <sup>163</sup> 1.602 -0.54500399	Cys <sup>174</sup> 0.797 -0.76751577	Cys <sup>191</sup> 0.927 -0.96407301	Cys <sup>259</sup> 6.189 -0.88446653	Cys <sup>273</sup> 5.803 -1.1413804	Cys <sup>282</sup> 1.292 -0.53982764	Cys <sup>288</sup> 5.269 -0.61959751

Legend:

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

