Inter-cellular signaling roles in OmniPath

Integrin alpha 1 and Collagen XVII

http://omnipathdb.org/intercell?proteins=ITGA1,COL17A1

category	uniprot	genesymbol	entity_type	mainclass	class_type
receptor_cellphonedb	P56199	ITGA1	protein	receptor	sub
receptor_surfaceome	P56199	ITGA1	protein	receptor	sub
receptor_go	P56199	ITGA1	protein	receptor	sub
receptor_ramilowski	P56199	ITGA1	protein	receptor	sub
receptor	P56199	ITGA1	protein	main	
ecm_matrixdb	Q9UMD9	COL17A1	protein	ecm	sub
cell_surface_surfaceome	P56199	ITGA1	protein	cell_surface	sub
cell_surface_go	P56199	ITGA1	protein	cell_surface	sub
cell_surface_membranome	P56199	ITGA1	protein	cell_surface	sub
cell_surface_cspa	P56199	ITGA1	protein	cell_surface	sub
cell_surface_cellphonedb	P56199	ITGA1	protein	cell_surface	sub
cell_surface_dgidb	P56199	ITGA1	protein	cell_surface	sub
cell_surface	P56199	ITGA1	protein	above_main	
ecm_matrisome	Q9UMD9	COL17A1	protein	ecm	sub
ecm_go	Q9UMD9	COL17A1	protein	ecm	sub
ecm	Q9UMD9	COL17A1	protein	main	
ligand_cellphonedb	Q9UMD9	COL17A1	protein	ligand	sub
ligand	Q9UMD9	COL17A1	protein	main	
intracellular	P56199	ITGA1	protein	above_main	
intracellular	Q9UMD9	COL17A1	protein	above_main	
extracellular	P56199	ITGA1	protein	above_main	
extracellular	Q9UMD9	COL17A1	protein	above_main	
transmembrane	P56199	ITGA1	protein	above_main	
transmembrane	Q9UMD9	COL17A1	protein	above_main	
adhesion	Q9UMD9	COL17A1	protein	main	
adhesion	P56199	ITGA1	protein	main	
extracellular_enzyme	P56199	ITGA1	protein	extracellular	main
secreted	Q9UMD9	COL17A1	protein	above_main	

CellPhoneDB, Surfaceome and other databases categorize ITGA1 as a receptor

the resource specific annotations are labelled as `sub`-categories, while the `main` category summarizes them

very specific or too generic categories are labelled as `small_main` and `above_main`

COL17A1 is indeed one of the transmembrane collagens

parameters: bit.ly/2kuunTq • examples: bit.ly/2IC7AFx • in pypath: bit.ly/2k7cR7O