

Carbohydrate Sulfotransferase 4 (CHST4)

Product Information

Cat#	DIA-671
Descriptions	Carbohydrate Sulfotransferase 4 (CHST4) specifically sulfates N-acetylglucosamine residues at position 6 in peripheral node addressin glycans, mediates lymphocyte adhesion to high endothelial venules, and is key for studying immune cell trafficking and mucosal immunity.
Applications	Carbohydrate Sulfotransferase 4 (CHST4) is widely used in peripheral node addressin detection kits and immune cell trafficking assay reagent development.
CAS No.	28-2-1730
Enzyme Source	Chinese Hamster Ovary cell line, CHO-derived human Carbohydrate Sulfotransferase 4/CHST4 protein.
Reaction	3'-phosphoadenylyl sulfate + 3-O-{N-acetyl-beta-D-glucosaminy- (1->3)-beta-D-galactosyl- (1->3)-N-acetyl-alpha-D-galactosaminy}-L-threonyl-[protein] = 3-O-{6-O-sulfo-N-acetyl-beta-D-glucosaminy- (1->3)-beta-D-galactosyl- (1->3)-N-acetyl-alpha-D-galactosaminy}-L-threonyl-[protein] + adenosine 3', 5'-bisphosphate + H ⁺
Activity Definition	Measured by its ability to transfer sulfate from PAPS to N-acetyl-D-glucosamine under the described conditions.