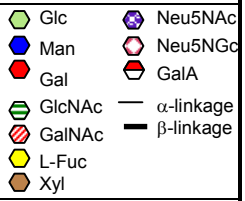
J-OIL MILLS Lectin Information Sheet

ABA ***Agaricus bisporus* Agglutinin**			
ABA	Code：J102	Pkg.：5mg	Price： ¥16,000
ABA－Biotin	Code：J202	Pkg.：1mg	Price： ¥10,000
ABA－FITC	Code：J502	Pkg.：1mg	Price： ¥10,000
Origin	*Agaricus bisporus* (mushroom)		
Sugar Specificity	β-D-Galactose, GlcNAc [1)]		
Oligosaccharide Specificity	Galβ1-3GalNAcα1-Ser/Thr（T-Antigen）[2)] Siaα2-3(6)Galβ1-3GalNAcα1-Ser/Thr [3)]		
Specific Oligosaccharides	 As for Details: Cabos DB No. N/A 		
Hemagglutinating Activity	Yes		
Mitogen Activity	No		
Blood Specificity	Non-specific		
Molecular Weight	16,185Da [This is the MW of the unprocessed precursor] [4)]		
Amino Acids Residue	143A.A. [This is the length of the unprocessed precursor]		
Gene Length	mRNA : 629bp [5)]		
Subunit	Homotetramer		
Family	Fungal fruit body lectin(FB_lectin)		
ccession No.(UniProtKB)	Q00022		
PDB ID（3D Structure）	1Y2T,1Y2U(Lacto-N-Biose) [6)], 1Y2V(T-Antigen) [6)], 1Y2W(T-Antigen and GlcNAc) [6)], 1Y2X(T-Antigen and GlcNAc) [6)]		
Metallic ion	None		
Glycosylation Site	None		
Cabos DB No.	N/A		

Reference
1) Nakamura-Tsuruta S, Kominami J, Kuno A, Hirabayashi J, *Biochem Biophys Res Commun.*, (2006), 347,215
2) Kaifu R, Osawa T, *Carbohydr.Res.*, (1979), 69, 79
3) Yu L, Fernig DG, Smith JA, Milton JD, Rhodes JM, *Cancer Res.*(1993), 53, 4627
4) Sueyoshi S, Tsuji T, Osawa T, *Biol Chem Hoppe Seyler.*, (1985), 366, 213
5) Crenshaw RW, Harper SN, Moyer M, Privalle LS, *Plant Physiol.*, (1995), 107, 1465
6) Carrizo ME, Capaldi S, Perduca M, Irazoqui FJ, Nores GA, Monaco HL, *J. Biol. Chem.* (2005),280, 10614

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