

Datasheet for ABA – Mushroom Lectin (Biotin-labeled)

ABA – Mushroom Lectin (Biotin-labeled)	
ABA	Catalog Number: MGC-J202 Pkg: 1 mg Product Form: Lyophilized powder (salt-free) Storage: Stable for 1 year at 4°C Applications: Staining and detection of glycoprotein sugar chains

Origin	Mushroom (<i>Agaricus bisporus</i>)
Sugar Specificity	β -D-Galactose (β -D-Gal), N-Acetyl-D-galactosamine (D-GalNAc) Strong binding to T-antigen (Gal β 1-3GalNAc α 1-Ser/Thr)
Mitogenic Activity	None
Blood Type Specificity	Non-specific
Structure	Glycoprotein with a molecular weight of 16,000 Composed of 4 subunits Exists in four isolectins with distinct amino acid compositions and isoelectric points
Features	Binds to mucin-type glycans containing Gal β 1-3GalNAc structures Does not bind to N-linked glycans Unlike peanut lectin (PNA), it also binds to sialylated structures such as: Sia α 2-3(6)Gal β 1-3GalNAc α 1-Ser/Thr (with either α 2-3 or α 2-6 sialic acid linkages)

References

1. Nakamura-Tsuruta, S., Hirabayashi, J., et al., Biochem. Biophys. Res. Commun., 347, 215
2. Kaifu, R., Osawa, T., Carbohydrate Research, 69, 79 (1979)
3. Sueyoshi, S., Tsuji, T., Biological Chemistry Hoppe-Seyler, 366, 213 (1985)