



Anti-Deoxynivalenol polyclonal antibody (DPAB4250)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit polyclonal antibody to deoxynivalenol.
Specificity	Purified antibody reacts with DON mycotoxin.
Immunogen	BSA-DON
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	N/A
Conjugate	Unconjugated
Format	IgG purified
Size	100 µg
Preservative	None
Storage	Storage at -20°C. Avoid freeze-thaw cycles.

BACKGROUND

Introduction	Vomitoxin, also known as deoxynivalenol (DON), is a type B trichothecene, an epoxy-sesquiterpeneoid. This mycotoxin occurs predominantly in grains such as wheat, barley, oats, rye, and maize, and less often in rice, sorghum, and triticale. The occurrence of deoxynivalenol is associated primarily with <i>Fusarium graminearum</i> (<i>Gibberella zeae</i>) and <i>F. culmorum</i> , both of which are important plant pathogens which cause fusarium head blight in wheat and gibberella
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or fusarium ear blight in maize. A direct relationship between the incidence of fusarium head blight and contamination of wheat with deoxynivalenol has been established. The incidence of fusarium head blight is strongly associated with moisture at the time of flowering (anthesis), and the timing of rainfall, rather than the amount, is the most critical factor. However, increased amount of moisture towards harvest time has been associated with lower amount of vomitoxin in wheat grain due to leaching of toxins. Furthermore, deoxynivalenol contents are significantly affected by the susceptibility of cultivars towards Fusarium species, previous crop, tillage practices, and fungicide use.

Keywords

(3 α ,7 α)-3,7,15-trihydroxy-12,13-epoxytrichothec-9-en-8-one; Deoxynivalenol (DON); Vomitoxin; 4-deoxynivalenol; dehydronivalenol; desoxynivalenol; rdt toxin; Deoxynivalenol, Vomitoxin; 3 α ,7 α ,15-Trihydroxy-12,13-epoxytrichothec-9-en-8-one, Vomitoxin; 3 α ,7 α ,15-Trihydroxy-12,13-epoxytrichothec-9-en-8-one, DON, Vomitoxin; 3 α ,7 α ,15-Trihydroxy-12,13-epoxytrichothec-9-en-8-one, Deoxynivalenol solution, DON, Vomitoxin; 4-Deoxynivalenol in acetonitrile; 3 α ,7 α ,15-Trihydroxy-12,13-epoxytrichotheca-9-ene-8-one; deoxynivalenol standard; DON, Vomitoxin
