Deoxynivalenol (DON) is a mycotoxin occurring in grains such as barley, maize, oats, rye, and wheat. It occurs less often in rice, sorghum, and triticale. The plant pathogens *Fusarium graminearum* (*Gibberella zeae*) and *F. culmorum*, which are causing *Gibberella* ear rot in maize and *Fusarium* head blight in wheat, are associated with the occurrence of Deoxynivalenol. DON is a type B trichotheccene, an epoxy-sesquiterpeneoid.

**Immunogen**
KLH-conjugated deoxynivalenol.

**Host**
Mouse

**Clonality**
Monoclonal

**Purity**
Purified using Caprylic Acid and Ammonium Sulfate precipitation

**Format**
Liquid in PBS pH 7.4

**Quantity**
1 mg

**Storage**
For several weeks at 4°C with addition of 0.03% Sodium Azide. For long time storage, aliquot and store product at -20°C. Avoid cycles of freezing and thawing. Expiration date is three years from the date of shipment if antibody is stored properly.

**Tested applications**
ELISA (ELISA), Immunoaffinity Chromatography (IAC), Rapid Test

**Related products**
- AS11 1675 | Anti-DON | deoxynivalenol (1 mg total IgG), rabbit polyclonal antibody
- AS11 1654 | Anti-DON | deoxynivalenol (100 ul serum), rabbit polyclonal antibody
- AS11 1686 | Anti-DON | deoxynivalenol (1 ml serum), rabbit polyclonal antibody
- AS11 1711 | Anti-DON | deoxynivalenol (0.2 mg total IgG), rabbit polyclonal antibody

**Secondary antibodies**

**Additional information**
DON IC50=5ppb, Cross reaction: 3-AC 0.3ppb  15-AC 15ppb Rate : 3-AC= 5/0.3  x100%=170%  15-AC= 5/15  x100%=34%
Sensitivity in lateral flow rapid test  1ppb Specificity  DON 100%, 3-AC 1600%, 15-AC 33%

**Application information**

**Recommended dilution**
The optimal working dilution should be determined by the investigator.

**Additional information**
Sensitivity in ELISA: 1 ng/ml, rapid test sensitivity 3 ng/ml.

Cross reactivities are listed below:
Deoxynivalenol, 5 ng/mL.
3-Acetyldeoxynivalenol, 0.3 ng/mL.
15-Acetyldeoxynivalenol, 15 ng/mL

**Selected references**
To be added when available, antibody released in May 2016.