

## Goat Anti Horse IgG (T) Polyclonal Antibody, AP

DPBT-67138GH Goat(IgG)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Goat Anti Horse IgG (T),AP
<b>Immunogen</b>	Purified equine IgG (T)
<b>Host</b>	Goat
<b>Isotype</b>	Polyclonal IgG
<b>Species</b>	Horse
<b>Conjugation</b>	AP
<b>Applications</b>	ELISA,
<b>Dilution</b>	ELISA: 1/1000 - 1/10000

### PACKAGING

<b>Format</b>	Purified IgG conjugated to Alkaline Phosphatase - liquid
<b>Protein Concentration</b>	IgG concentration 0.5mg/ml
<b>Buffer</b>	50mM HEPES, 0.1M NaCl, 1mM MgCl <sub>2</sub> , 0.1mM ZnCl <sub>2</sub>
<b>Storage</b>	Store at +4 °C.DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Preservative</b>	0.09% Sodium Azide 0.2% Bovine Serum Albumin
<b>Shelf Life</b>	12 months from date of despatch.

### BACKGROUND

<b>Introduction</b>	Immunoglobulin G (IgG) are antibody molecules. Each IgG is composed of four peptide chains - two heavy chains $\gamma$ and two light chains. Each IgG has two antigen binding sites. Other Immunoglobulins may be described in terms of polymers with the IgG structure considered the monomer. IgG molecules are synthesized and secreted by plasma B cells. IgG antibodies are large molecules of about 150 kDa composed of 4 peptide chains. It contains 2 identical heavy chains of about 60kDa and 2 identical light chains of about 25 kDa, thus a tetrameric quaternary structure. The two heavy chains are linked to each other and to a light chain each by disulfide bonds. The resulting tetramer has two identical halves, which together form the Y-like shape. Each end of the fork contains an identical antigen binding site. The Fc regions of IgGs bear a highly conserved N-glycosylation site. The N-glycans attached to this site are predominantly core-fucosylated diantennary structures of the complex type. In addition, small amounts of these N-glycans also bear bisecting GlcNAc and $\alpha$ -2,6-linked sialic acid residues.
<b>Keywords</b>	Ig gamma 1 chain C region; IGHG1; Immunoglobulin heavy constant gamma 1; Immunoglobulin G; IgG; IgG heavy chain; Immunoglobulin G heavy chain