

## Donkey Anti Goat IgG Polyclonal Antibody, HRP

DPBT-67081DG Donkey(IgG)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Donkey Anti Goat IgG,HRP
<b>Host</b>	Donkey
<b>Isotype</b>	Polyclonal IgG
<b>Species</b>	Goat
<b>Conjugation</b>	HRP
<b>Applications</b>	IHC, ELISA, FCM, IP, WB
<b>Dilution</b>	IHC: 1/500 - 1/5,000;ELISA: 1/5,000 - 1/100,000;WB: 1/5,000 - 1/100,000
<b>Reconstitution</b>	Reconstitute with 0.5 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Creative-diagnostics recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.01% thiomersal is recommended.

### PACKAGING

<b>Format</b>	Purified IgG conjugated to Horseradish Peroxidase (HRP) - lyophilised
<b>Buffer</b>	Phosphate buffered saline
<b>Storage</b>	Prior to reconstitution store at +4 °C.After reconstitution store at -20 °C.Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.
<b>Preservative</b>	1.5% Bovine Serum Albumin
<b>Shelf Life</b>	12 months from date of reconstitution.

### 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