



Catalog Number:	RA22148	Host:	Rabbit
Product Type:	Rabbit Polyclonal	Species Reactivity:	Human, Rat, Mouse, Cow, Pig, Horse, Chicken
Immunogen Sequence:	Full length recombinant human GAPDH expressed in and purified from E. coli	Format:	Antibody is supplied as an aliquot of serum plus 5mM NaN ₃
Applications:	Immunofluorescence: 1:2,000 Immunohistochemistry: 1:2,000 Western Blot: 1:30,000		
Storage:	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.		

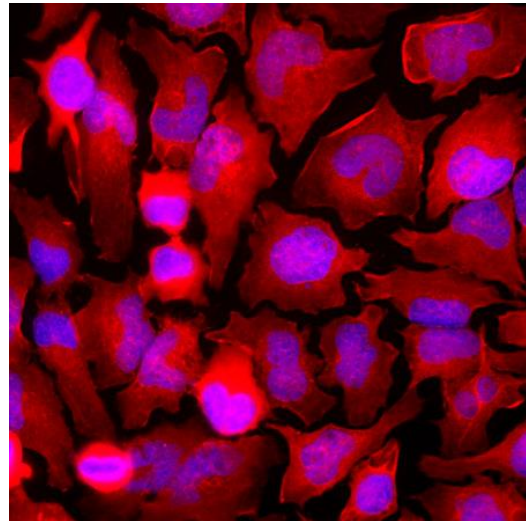
Application Notes

Description/Data

Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) is a metabolic enzyme responsible for catalyzing one step in the glycolytic pathway, the reversible oxidative phosphorylation of glyceraldehyde 3-phosphate to produce glyceraldehyde 1-3-bisphosphate. Because GAPDH protein is expressed in large amounts and is required at all times for an important "house keeping" function, levels of GAPDH mRNA are often measured and used as standards in studies of the expression of other mRNAs. Similarly specific antibodies to GAPDH are used to measure GAPDH expression as a protein standard in western blotting experiments. This antibody can be used as a loading control for such experiments, allowing comparison between the expression level of this protein and others in a cell or tissue.

The immunogen used to raise RA22148 was extensively purified pig GAPDH. The antibody has been widely used as a western blotting standard by many labs for many years and is known to detect GAPDH in a variety of mammalian species including human, rat and mouse. It produces a single clean band on western blots of typical cell and tissue extracts

Image: Immunofluorescent analysis of HeLa cells stained with rabbit pAb to GAPDH, RA22148, dilution 1:2,000 in red. Blue is Hoechst staining of nuclear DNA. The antibody produces diffuse cytoplasmic staining of cells.



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