



IgG1 Polyclonal Antibody

Catalog No	YP-Ab-13934
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	IGHG1
Immunogen	The antiserum was produced against synthesized peptide derived from human IgG1. AA range:196-245
Specificity	IgG1 Polyclonal Antibody detects endogenous levels of IgG1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	IgG1;IGHG1;Ig gamma-1 chain C region
Observed Band	41kD
Calculated Molecular Weight	41kD
Cell Pathway	Secreted . Cell membrane .
Tissue Specificity	Dermoid tumor,Esophagus tumor,Glandular pool- thyro
Function	disease:Chromosomal aberrations involving IGHG1 may be a cause of multiple myeloma [MIM:254500]. Translocation t(11;14)(q13;q32) with CCND1; translocation t(4;14)(p16.3;q32.3) with FGFR3; translocation t(6;14)(p25;q32) with IRF4.,miscellaneous:Disease protein OMM may represent an allelic form or another gamma chain subclass.,miscellaneous:Disease protein WIS is lacking most of the V region and all of the CH1 region.,miscellaneous:Disease protein ZUC lack most of the V region, all of the CH1 region, and part of the hinge compared with normal gamma-3 heavy chains.,miscellaneous:EU also differs in the amidation states of residues 155, 166, 177, 195, 198, 269, and 272 and in the order of residues 268-272.,miscellaneous:KOL also differs in the amidation states of residues 198, 267 and 272.,miscellaneous:Nie also differs in the amidation states of 35, 116, 198, 269 and 272.,miscellaneous:Nie h



Background

disease:Chromosomal aberrations involving IGHG1 may be a cause of multiple myeloma [MIM:254500]. Translocation t(11;14)(q13;q32) with CCND1; translocation t(4;14)(p16.3;q32.3) with FGFR3; translocation t(6;14)(p25;q32) with IRF4.,miscellaneous:Disease protein OMM may represent an allelic form or another gamma chain subclass.,miscellaneous:Disease protein WIS is lacking most of the V region and all of the CH1 region.,miscellaneous:Disease protein ZUC lack most of the V region, all of the CH1 region, and part of the hinge compared with normal gamma-3 heavy chains.,miscellaneous:EU also differs in the amidation states of residues 155, 166, 177, 195, 198, 269, and 272 and in the order of residues 268-272.,miscellaneous:KOL also differs in the amidation states of residues 198, 267 and 272.,miscellaneous:Nie also differs in the amidation states of 35, 116, 198, 269 and 272.,miscellaneous:Nie has the G1M(17) allotypic marker, 97-K, and the G1M(1) markers, 239-D and 241-L. KOL and EU sequences have the G1M(3) marker and the G1M (non-1) markers., miscellaneous:The hinge region in gamma-3 chains is about four times as long as in other gamma chains and contains three identical 15-residue segments preceded by a similar 17-residue segment (12-28).,online information:IGHM mutation db,polymorphism:All 4 combinations of the S/G and V/G polymorphisms at positions 191 and 216 have been observed in human mu chains.,subcellular location:During differentiation, B-lymphocytes switch from expression of membrane-bound IgM to secretion of IgM.,subunit:Dimer linked by 12 disulfide bonds; it has an extra interchain disulfide bond at position 7 in addition to the 11 normally present in the hinge region.,

matters needing attention

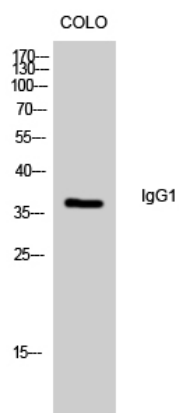
Avoid repeated freezing and thawing!

Usage suggestions

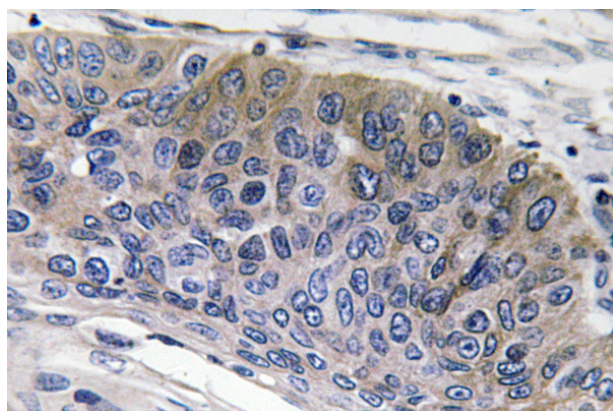
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



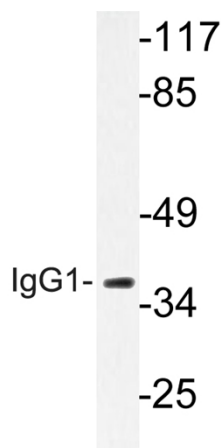
Products Images



Western Blot analysis of colo cells using IgG1
Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of IgG1 antibody in
paraffin-embedded human lung carcinoma tissue.



Western blot analysis of lysate from LOVO cells, using
IgG1 antibody.