

Immunotag™ HLA Class I Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT5837
Product Description	Immunotag™ HLA Class I Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be returned. It is not eligible for return.
Target Protein	HLA Class I
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000, ELISA 1:10000-20000
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
Immunogen	The antiserum was produced against synthesized peptide derived from human HLA Class I. AA range:2-100
Specificity	The antibody detects endogenous HLA Class I protein
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific antigen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	HLA-A HLAA
Accession No.	P01891/P01892/P04439/P05534/P10314/P10316/P13746/P16189/P18462/P30443/P30450/P30453/P30454
Alternate Names	HLA-A HLAA

Antibody Specification

Description	major histocompatibility complex, class I, A(HLA-A) Homo sapiens HLA-A belongs to the HLA class I heavy chain gene family. The molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is transmembrane. Class I molecules play a central role in the immune system by presenting peptides derived from the extracellular space to the T cell receptor in the immunological synapse. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. The leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide. Exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms in exons 2, 3 and 8 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is important for bone marrow and kidney transplants.
Cell Pathway/ Category	Endocytosis,Cell adhesion molecules (CAMs),Antigen processing and presentation,Natural killer cell mediated cytotoxicity,Diabetes mellitus,Autoimmune thyroid disease,Allograft rejection,Graft-versus-host disease,Viral myocarditis, HIV infection.
Protein Expression	A*3201,Blood,Brain,Buffy coat,Hematopoietic,Liver,Lung,Lymphoid tissue.
Subcellular Localization	Golgi membrane,endoplasmic reticulum,Golgi apparatus,Golgi medial cisterna,plasma membrane,integral component of membrane,cell surface,ER to Golgi transport vesicle membrane,membrane,integral component of membrane.
Protein Function	function:Involved in the presentation of foreign antigens to the immune system.,polymorphism:The following alleles of A*0101 are known: A*0101, A*0102, A*0103, A*0106 and A*0107. The sequence shown is that of A*0101.,polymorphism:The following alleles of A*1101 are known: A*1101 (A-11E), A*1102 (A-11K), A*1103, A*1104, A*1105 and A*1107. The sequence shown is that of A*1101.,polymorphism:The following alleles of A-2 are known: A*0201, A*0202, A*0203, A*0204, A*0205, A*0206 (A2.4A), A*0207, A*0208 (A2.5), A*0212, A*0213 (A*02SLU), A*0216, A*0217, A*0218 (A2K), A*0219, A*0220, A*0221, A*0231, A*0232, A*0233, A*0234 and A*0237. The sequence shown is that of A*0201.,polymorphism:The following alleles of A-23 are known: A*2301, A*2302, A*2303, A*2304 and A*2305. The sequence shown is that of A*2301.,polymorphism:The following alleles of A-24 are known: A*2401, A*2402, A*2403, A*2406, A*2408 (A9HH), A*2410 (A*24JV), A*2413 (A*24YM), A*2414 (A*24SA) and A*2429. Allele A*2406 and allele A*2413 are found in the Australian Aboriginal population. Allele A*2408 is found in individuals of South American descent. The sequence shown is that of A*2402.,polymorphism:The following alleles of A*2501 are known: A*2501, A*2502 and A*2503. The sequence shown is that of A*2501.,polymorphism:The following alleles of A*2601 are known: A*2601, A*2602, A*2603, A*2604 (A-10SA), A*2605, A*2607, A*2608, A*2612 and A*2615. The sequence shown is that of A*2601.,polymorphism:The following alleles of A-29 are known: A*2901 (A29.1), A*2902 (A29.2), A*2903, A*2904, A*2905, A*2906, A*2907, A*2908, A*2909, A*2910, A*2911, A*2912, A*2913, A*2914, A*2915, A*2916, A*2917, A*2918, A*2919, A*2920, A*2921, A*2922, A*2923, A*2924, A*2925, A*2926, A*2927, A*2928, A*2929, A*2930, A*2931, A*2932, A*2933, A*2934, A*2935, A*2936, A*2937, A*2938, A*2939, A*2940, A*2941, A*2942, A*2943, A*2944, A*2945, A*2946, A*2947, A*2948, A*2949, A*2950, A*2951, A*2952, A*2953, A*2954, A*2955, A*2956, A*2957, A*2958, A*2959, A*2960, A*2961, A*2962, A*2963, A*2964, A*2965, A*2966, A*2967, A*2968, A*2969, A*2970, A*2971, A*2972, A*2973, A*2974, A*2975, A*2976, A*2977, A*2978, A*2979, A*2980, A*2981, A*2982, A*2983, A*2984, A*2985, A*2986, A*2987, A*2988, A*2989, A*2990, A*2991, A*2992, A*2993, A*2994, A*2995, A*2996, A*2997, A*2998, A*2999, A*3000, A*3001, A*3002, A*3003, A*3004, A*3005, A*3006, A*3007, A*3008, A*3009, A*3010, A*3011, A*3012, A*3013, A*3014, A*3015, A*3016, A*3017, A*3018, A*3019, A*3020, A*3021, A*3022, A*3023, A*3024, A*3025, A*3026, A*3027, A*3028, A*3029, A*3030, A*3031, A*3032, A*3033, A*3034, A*3035, A*3036, A*3037, A*3038, A*3039, A*3040, A*3041, A*3042, A*3043, A*3044, A*3045, A*3046, A*3047, A*3048, A*3049, A*3050, A*3051, A*3052, A*3053, A*3054, A*3055, A*3056, A*3057, A*3058, A*3059, A*3060, A*3061, A*3062, A*3063, A*3064, A*3065, A*3066, A*3067, A*3068, A*3069, A*3070, A*3071, A*3072, A*3073, A*3074, A*3075, A*3076, A*3077, A*3078, A*3079, A*3080, A*3081, A*3082, A*3083, A*3084, A*3085, A*3086, A*3087, A*3088, A*3089, A*3090, A*3091, A*3092, A*3093, A*3094, A*3095, A*3096, A*3097, A*3098, A*3099, A*3100, A*3101, A*3102, A*3103, A*3104, A*3105, A*3106, A*3107, A*3108, A*3109, A*3110, A*3111, A*3112, A*3113, A*3114, A*3115, A*3116, A*3117, A*3118, A*3119, A*3120, A*3121, A*3122, A*3123, A*3124, A*3125, A*3126, A*3127, A*3128, A*3129, A*3130, A*3131, A*3132, A*3133, A*3134, A*3135, A*3136, A*3137, A*3138, A*3139, A*3140, A*3141, A*3142, A*3143, A*3144, A*3145, A*3146, A*3147, A*3148, A*3149, A*3150, A*3151, A*3152, A*3153, A*3154, A*3155, A*3156, A*3157, A*3158, A*3159, A*3160, A*3161, A*3162, A*3163, A*3164, A*3165, A*3166, A*3167, A*3168, A*3169, A*3170, A*3171, A*3172, A*3173, A*3174, A*3175, A*3176, A*3177, A*3178, A*3179, A*3180, A*3181, A*3182, A*3183, A*3184, A*3185, A*3186, A*3187, A*3188, A*3189, A*3190, A*3191, A*3192, A*3193, A*3194, A*3195, A*3196, A*3197, A*3198, A*3199, A*3200, A*3201, A*3202, A*3203, A*3204, A*3205, A*3206, A*3207, A*3208, A*3209, A*3210, A*3211, A*3212, A*3213, A*3214, A*3215, A*3216, A*3217, A*3218, A*3219, A*3220, A*3221, A*3222, A*3223, A*3224, A*3225, A*3226, A*3227, A*3228, A*3229, A*3230, A*3231, A*3232, A*3233, A*3234, A*3235, A*3236, A*3237, A*3238, A*3239, A*3240, A*3241, A*3242, A*3243, A*3244, A*3245, A*3246, A*3247, A*3248, A*3249, A*3250, A*3251, A*3252, A*3253, A*3254, A*3255, A*3256, A*3257, A*3258, A*3259, A*3260, A*3261, A*3262, A*3263, A*3264, A*3265, A*3266, A*3267, A*3268, A*3269, A*3270, A*3271, A*3272, A*3273, A*3274, A*3275, A*3276, A*3277, A*3278, A*3279, A*3280, A*3281, A*3282, A*3283, A*3284, A*3285, A*3286, A*3287, A*3288, A*3289, A*3290, A*3291, A*3292, A*3293, A*3294, A*3295, A*3296, A*3297, A*3298, A*3299, A*3300, A*3301, A*3302, A*3303, A*3304, A*3305, A*3306, A*3307, A*3308, A*3309, A*3310, A*3311, A*3312, A*33

Antibody Specification

Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.
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